

**Pre-Remedial Design Investigation  
Data Report**

South State Street MGP Site  
Bellingham, Washington

*for*  
**Puget Sound Energy**

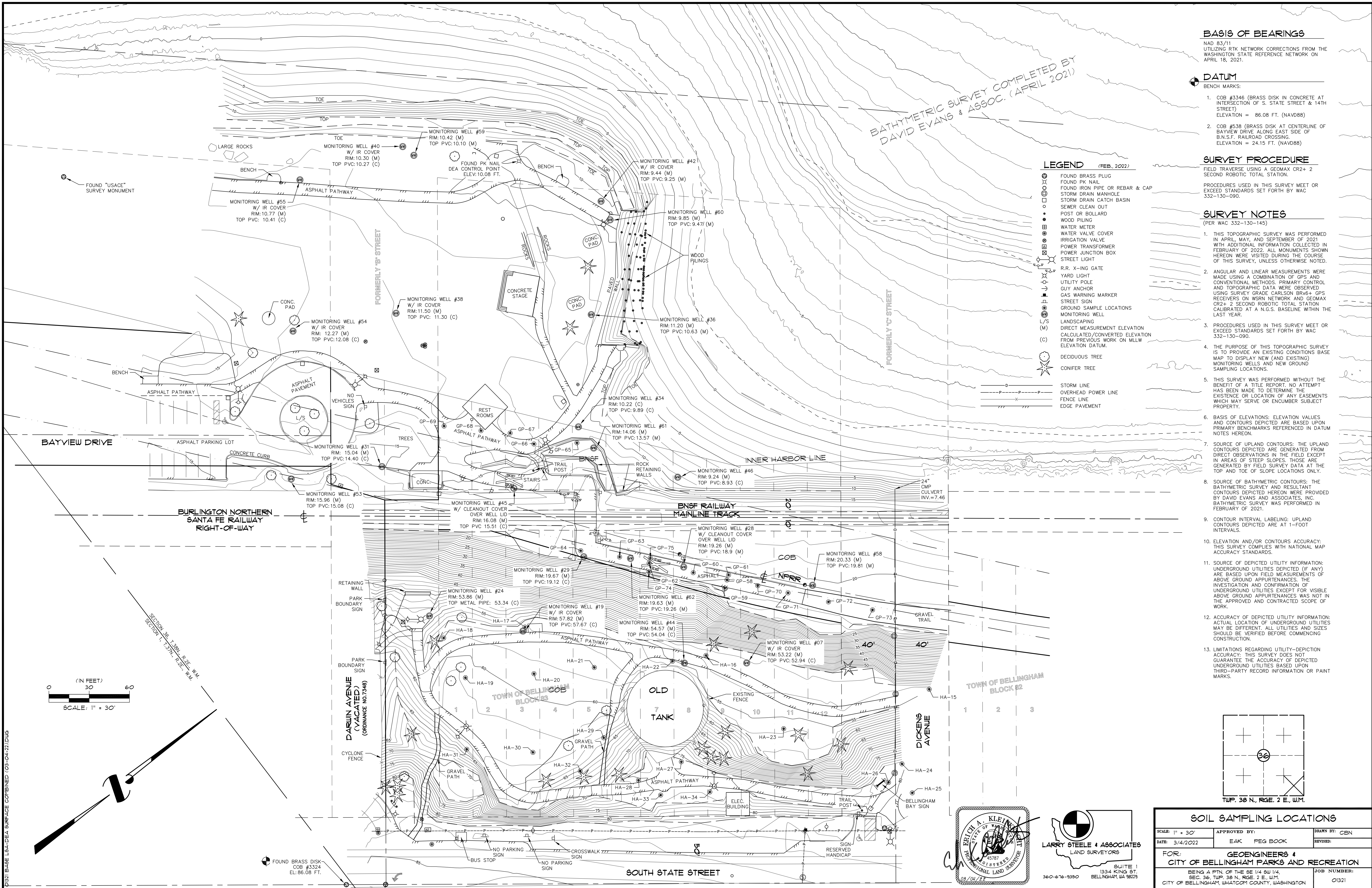
June 28, 2023





## **APPENDIX A**

### **Site Surveys**



**BASIS OF BEARINGS**

NAD 83/11  
UTILIZING RTK NETWORK CORRECTIONS FROM THE  
WASHINGTON STATE REFERENCE NETWORK ON  
APRIL 16, 2021.

**DATUM**

- BENCH MARKS:
- COB #3346 (BRASS DISK IN CONCRETE AT INTERSECTION OF S. STATE STREET & 14TH STREET)  
ELEVATION = 86.08 FT. (NAVD88)
  - COB #538 (BRASS DISK AT CENTERLINE OF BAYVIEW DRIVE ALONG EAST SIDE OF B.N.S.F. RAILROAD CROSSING)  
ELEVATION = 24.15 FT. (NAVD88)

**SURVEY PROCEDURE**

FIELD TRAVERSE USING A GEOMAX CR2+ 2 SECOND ROBOTIC TOTAL STATION.  
PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET FORTH BY WAC 332-130-090.

**SURVEY NOTES**

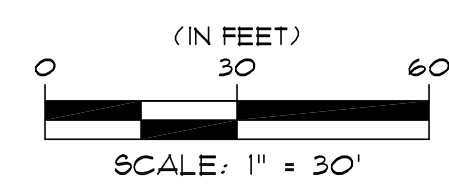
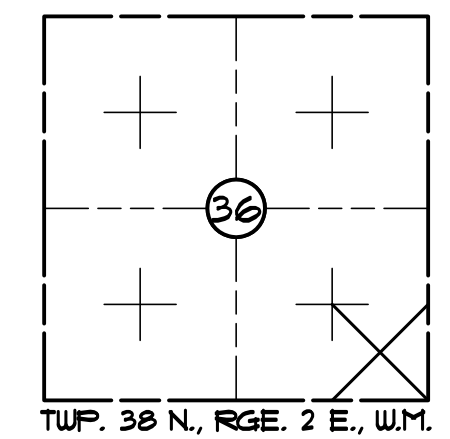
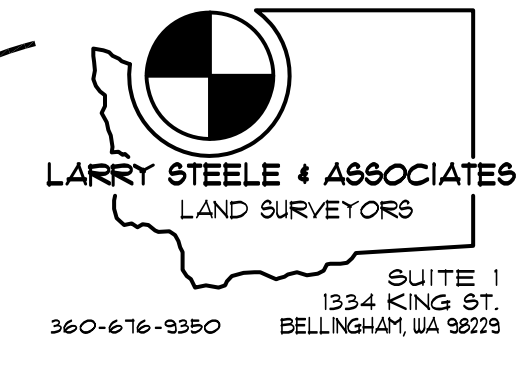
- (PER WAC 332-130-145)
- THIS TOPOGRAPHIC SURVEY WAS PERFORMED IN APRIL, MAY, AND SEPTEMBER OF 2021 WITH ADDITIONAL INFORMATION COLLECTED IN FEBRUARY OF 2022. ALL MONUMENTS SHOWN HEREON WERE VISITED DURING THE COURSE OF THIS SURVEY, UNLESS OTHERWISE NOTED.
  - ANGULAR AND LINEAR MEASUREMENTS WERE MADE USING A COMBINATION OF GPS AND CONVENTIONAL METHODS. PRIMARY CONTROL AND TOPOGRAPHIC DATA WERE OBSERVED USING SURVEY GRADE CARLSON BR4+ GPS RECEIVERS ON WSN NETWORK AND GEOMAX CR2+ 2 SECOND ROBOTIC TOTAL STATION CALIBRATED AT A N.G.S. BASELINE WITHIN THE LAST YEAR.
  - PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET FORTH BY WAC 332-130-090.
  - THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS TO PROVIDE AN EXISTING CONDITIONS BASE MAP TO DISPLAY NEW (AND EXISTING) MONITORING WELLS AND NEW GROUND SAMPLING LOCATIONS.
  - THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. NO ATTEMPT HAS BEEN MADE TO DETERMINE THE EXISTENCE OR LOCATION OF ANY EASEMENTS WHICH MAY SERVE OR ENCUMBER SUBJECT PROPERTY.
  - BASIS OF ELEVATIONS: ELEVATION VALUES AND CONTOURS DEPICTED ARE BASED UPON PRIMARY BENCHMARKS REFERENCED IN DATUM NOTES HEREON.
  - SOURCE OF UPLAND CONTOURS: THE UPLAND CONTOURS DEPICTED ARE GENERATED FROM DIRECT OBSERVATIONS IN THE FIELD EXCEPT IN AREAS OF STEEP SLOPES. THOSE ARE GENERATED BY FIELD SURVEY DATA AT THE TOP AND TOE OF SLOPE LOCATIONS ONLY.
  - SOURCE OF BATHYMETRIC CONTOURS: THE BATHYMETRIC CONTOURS DEPICTED WERE PROVIDED BY DAVID EVANS AND ASSOCIATES, INC. BATHYMETRIC SURVEY WAS PERFORMED IN FEBRUARY OF 2021.
  - CONTOUR INTERVAL LABELING: UPLAND CONTOURS DEPICTED ARE AT 1-FOOT INTERVALS.
  - ELEVATION AND/OR CONTOURS ACCURACY: THIS SURVEY COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS.
  - SOURCE OF DEPICTED UTILITY INFORMATION: UNDERGROUND UTILITIES DEPICTED (IF ANY) ARE BASED UPON FIELD MEASUREMENTS OF ABOVE GROUND APPURTENANCES. THE INVESTIGATION AND CONFIRMATION OF UNDERGROUND UTILITIES EXCEPT FOR VISIBLE ABOVE GROUND APPURTENANCES WAS NOT IN THE APPROVED AND CONTRACTED SCOPE OF WORK.
  - ACCURACY OF DEPICTED UTILITY INFORMATION: ACTUAL LOCATION OF UNDERGROUND UTILITIES MAY BE DIFFERENT. ALL UTILITIES AND SIZES SHOULD BE VERIFIED BEFORE COMMENCING CONSTRUCTION.
  - LIMITATIONS REGARDING UTILITY-DEPICTION ACCURACY: THIS SURVEY DOES NOT GUARANTEE THE ACCURACY OF DEPICTED UNDERGROUND UTILITIES BASED UPON THIRD-PARTY RECORD INFORMATION OR PAINT MARKS.

**LEGEND (FEB. 2022)**

- FOUND BRASS PLUG
- FOUND PK NAIL
- FOUND IRON PIPE OR REBAR & CAP
- STORM DRAIN MANHOLE
- STORM DRAIN CATCH BASIN
- SEWER CLEAN OUT
- POST OR BOLLARD
- WOOD PILING
- WATER METER
- WATER VALVE COVER
- IRRIGATION VALVE
- POWER TRANSFORMER
- POWER JUNCTION BOX
- STREET LIGHT
- R.R. X-ING GATE
- YARD LIGHT
- UTILITY POLE
- GUY ANCHOR
- GAS WARNING MARKER
- STREET SIGN
- GROUND SAMPLE LOCATIONS
- MONITORING WELL
- LANDSCAPING
- DIRECT MEASUREMENT ELEVATION
- CALCULATED/CONVERTED ELEVATION FROM PREVIOUS WORK ON MLW ELEVATION DATUM
- (C)
- DEODIOUS TREE
- CONIFER TREE
- STORM LINE
- OVERHEAD POWER LINE
- FENCE LINE
- EDGE PAVEMENT

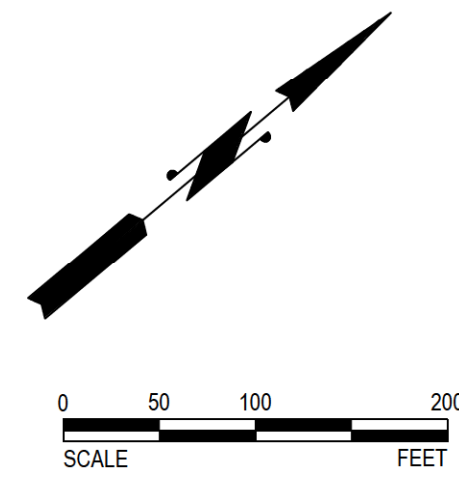
**SOIL SAMPLING LOCATIONS**

SCALE: 1" = 30'	APPROVED BY:	DRAWN BY: CBN
DATE: 3/4/2022	EAK FEG BOOK	REVISED:
FOR: GEOENGINEERS & LAND SURVEYORS		
CITY OF BELLINGHAM PARKS AND RECREATION		
BEING A PTN. OF THE SE 1/4 SW 1/4, SEC. 36, TWP. 38 N., RGE. 2 E., W.4M., CITY OF BELLINGHAM, WHATCOM COUNTY, WASHINGTON		JOB NUMBER: 01321



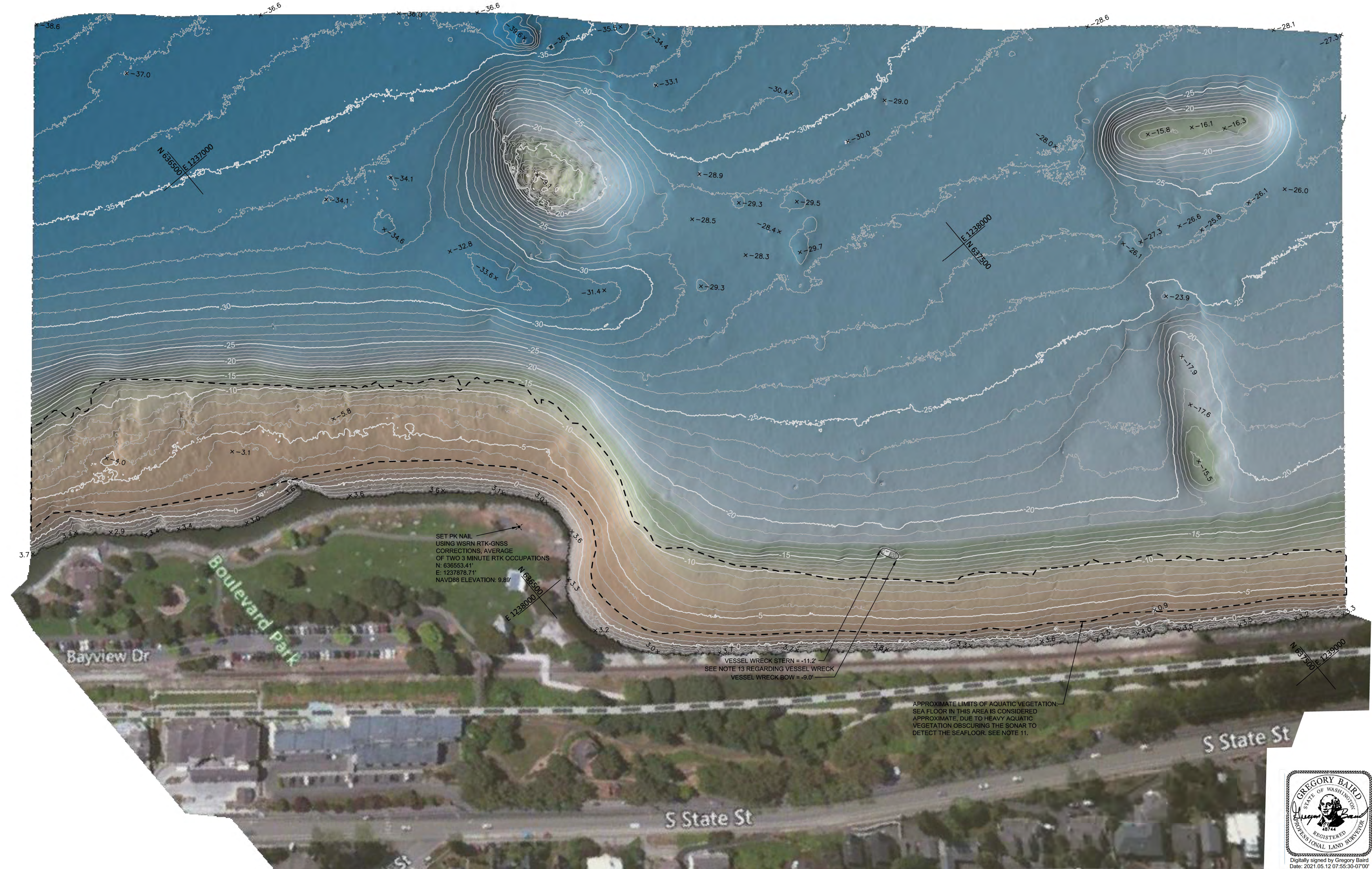
SECTION 36 T.18N. R.2E. W.4M.  
SECTION 1 T.17N. R.2E. W.4M.

D:\311 BASE USA-DETA SURFACE COVERED 03-04-22.DWG



E 1237000  
N 636500

E 1238000  
N 636500



- NOTES:
- THIS DRAWING PRESENTS THE RESULTS OF A MULTIBEAM BATHYMETRIC SURVEY CONDUCTED BY THE MARINE SERVICES DIVISION OF DAVID EVANS AND ASSOCIATES, INC. (DEA).
  - DATE OF SURVEY FEBRUARY 27, 2021.
  - HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 WITH THE NATIONAL SPATIAL REFERENCE SYSTEM 2011 ADJUSTMENT, (NAD-83(2011)) STATE PLANE COORDINATE SYSTEM (SPCS), WASHINGTON NORTH ZONE, BASED ON THE WASHINGTON STATE REFERENCE NETWORK (WSRN).
  - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), USING GEOID 2012B, BASED ON THE WASHINGTON STATE REFERENCE NETWORK (WSRN).  
TO OBTAIN MEAN LOWER LOW WATER ELEVATION (MLLW) ADD 0.49 FEET TO NAVD88, (BASED ON NOAA VDATUM ONLINE TRANSFORMATION, VERSION 4.1.2) EXAMPLE: IF NAVD88 = 10.00 FEET; THEN MLLW = 10.49 FEET
  - UNITS: U.S. FEET.
  - THE DATA IS SHOWN AS ELEVATIONS AND WAS THINNED TO A 1.64 FOOT (50CM) GRID, USING AN INVERSE DISTANCE WEIGHTED ALGORITHM, WITH THE CONTOUR INTERVAL OF ONE FOOT.
  - BATHYMETRIC DATA WAS COLLECTED USING A TELEMETRIC SEABAT 7101 MULTIBEAM SONAR OPERATING AT 240 KHZ, WITH AN APPLIXIM POS/MV COMBINED KINEMATIC GPS AND INERTIAL POSITIONING AND MOTION REFERENCE SYSTEM FOR VESSEL ATTITUDE AND HEAVE, WITH AN ADDITIONAL TRIMBLE SP5-885 RTK-GNSS SYSTEM USED FOR WATER SURFACE CORRECTIONS.
  - HORIZONTAL POSITIONS AND WATER SURFACE ELEVATIONS WERE OBTAINED FROM THE WASHINGTON STATE REFERENCE NETWORK (WSRN) GNSS REAL TIME KINEMATIC (RTK) CORRECTIONS, VERIFIED BY COMPARING TO INS ONLINE USER POSITIONING SERVICE (OPUS) DERIVED SOLUTION OCCUPYING AN EXISTING WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WDOT) MONUMENT "BELL BAY".
  - THIS HYDROGRAPHIC SURVEY WAS COLLECTED IN ACCORDANCE WITH THE U.S. ARMY CORPS OF ENGINEERS (USACE) HYDROGRAPHIC SURVEYING MANUAL EM1110-2-1003.
  - THIS BATHYMETRIC SURVEY IS REPRESENTATIVE OF THE CONDITION OF THE SEAFLOOR AT THE TIME OF THE SURVEY; THE CONDITION OF THE SEAFLOOR MAY CHANGE AFTER THE DATE OF THIS SURVEY.
  - AS NOTED ON THE DRAWING, THE AREA OF THICK AQUATIC VEGETATION ALONG THE SHORELINE WAS REMOVED AS BEST POSSIBLE, USING A STATISTICAL ALGORITHM ALONG WITH OBJECTIVE ANALYSIS AND EDITING. THIS AREA IS CONSIDERED AN APPROXIMATION OF THE SEAFLOOR, AS THE SONAR IS IMPEDED BY THE VEGETATION AND DIFFICULT TO IDENTIFY THE SEAFLOOR WITH CONFIDENCE. IT IS ESTIMATED THAT THE ACCURACY OF THE SEAFLOOR IN THIS AREA IS APPROXIMATELY 0.25 TO 0.75 FEET.
  - AERIAL IMAGERY IS FOR REFERENCE ONLY, NOT TO BE USED FOR ENGINEERING DESIGN.
  - VESSEL WRECK SHOWN IS NOT PART OF THE SEAFLOOR. SPOT ELEVATIONS SHOWN OF THE VESSEL WRECK BOW AND STERN IS NOT IN THE DIGITAL TERRAIN MODEL (DTM) AND NOT REFLECTED IN THE CONTOURS. THE BOW IS THE SHOALEST POINT ON THE VESSEL WRECK DETECTED WITH THE SONAR.

SURVEY CONTROL:  
 WDOT "BELL BAY"  
 2" BRASS CAP, STAMPED: "W.S.D.O.T., 2005, BELL BAY"  
 OPUS SOLUTION FROM 9 HOUR STATIC GNSS OCCUPATION  
 NORTHING: 644715.01'  
 EASTING: 1238401.43'  
 NAVD88 ELEVATION: 14.22'

SET PK NAIL  
 USING WSRN RTK-GNSS CORRECTIONS, AVERAGE OF TWO 3  
 MINUTE RTK OCCUPATIONS  
 NORTHING: 636553.41'  
 EASTING: 1237878.71'  
 NAVD88 ELEVATION: 9.89'

- LEGEND:
- SPOT SOUNDING
  - 1 FOOT CONTOUR INTERVAL
  - 5 FOOT CONTOUR INTERVAL
  - APPROXIMATE LIMITS OF AQUATIC VEGETATION

THIS HYDROGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECTION OF A NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS/ THE HYDROGRAPHIC SOCIETY OF AMERICA (NSPS/THSOA), CERTIFIED HYDROGRAPHER.

*Gregory P. Baird*  
 GREGORY P. BAIRD, P.L.S., C.H.  
 NSPS/THSOA CERTIFIED HYDROGRAPHER (201)



SURVEYOR'S CERTIFICATION:  
 I, GREGORY P. BAIRD, A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF WASHINGTON (REG. NO. 48744), HEREBY CERTIFY THAT THIS BATHYMETRIC SURVEY WAS PERFORMED UNDER MY DIRECTION AND THAT THE CONTOURS SHOWN HEREON ARE ACCURATELY DEPICTED, UNLESS OTHERWISE NOTED.

*Gregory P. Baird*  
 GREGORY P. BAIRD, P.L.S., C.H.

MULTIBEAM BATHYMETRIC SURVEY  
 SOUTH STATE STREET MGP SITE  
 PRE-REMEDIATION DESIGN INVESTIGATION  
 PUGET SOUND ENERGY  
 BELLINGHAM, WASHINGTON

DAVID EVANS  
 AND ASSOCIATES, INC.  
 MARINE SERVICES  
 2801 Southeast Columbia Way, Suite 130  
 Vancouver, Washington 98661  
 Phone: 360.314.3200

REVISIONS: APPD.

DATE: 5/12/2021  
 DESIGN: GPB  
 DRAWN: KMD  
 CHECKED: NSL  
 REVISION NUMBER:

SCALE: 1"=100'

PROJECT NUMBER:  
 GEOE0000-0034

DRAWING FILE:  
 MS-BC-GEOE0034.dwg

SHEET NO.

1  
 OF 1

**APPENDIX B**  
**Upland Soil Logs**

## SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		<b>GW</b>	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>GP</b>	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>GM</b>	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		<b>SW</b>	WELL-GRADED SANDS, GRAVELLY SANDS
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>SP</b>	POORLY-GRADED SANDS, GRAVELLY SAND
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>SM</b>	SILTY SANDS, SAND - SILT MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		<b>ML</b>	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
		LIQUID LIMIT LESS THAN 50		<b>CL</b>	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		LIQUID LIMIT LESS THAN 50		<b>OL</b>	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		<b>MH</b>	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
		LIQUID LIMIT GREATER THAN 50		<b>CH</b>	INORGANIC CLAYS OF HIGH PLASTICITY
		LIQUID LIMIT GREATER THAN 50		<b>OH</b>	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS				<b>PT</b>	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

### Sampler Symbol Descriptions

	2.4-inch I.D. split barrel / Dames & Moore (D&M)
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab
	Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

"P" indicates sampler pushed using the weight of the drill rig.

"WOH" indicates sampler pushed using the weight of the hammer.

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

## ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	<b>AC</b>	Asphalt Concrete
	<b>CC</b>	Cement Concrete
	<b>CR</b>	Crushed Rock/ Quarry Spalls
	<b>SOD</b>	Sod/Forest Duff
	<b>TS</b>	Topsoil

### Groundwater Contact



Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

### Graphic Log Contact

Distinct contact between soil strata

Approximate contact between soil strata

### Material Description Contact

Contact between geologic units

Contact between soil of the same geologic unit

### Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DD	Dry density
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
Mohs	Mohs hardness scale
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PL	Point lead test
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
UU	Unconsolidated undrained triaxial compression
VS	Vane shear

### Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen

## Key to Exploration Logs



Figure B-1

Drilled	Start 1/10/2022	End 1/10/2022	Total Depth (ft)	14	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	20.03 NAVD88		Hammer Data	N/A			Drilling Equipment	Track Rig		
Easting (X) Northing (Y)	1238219 636480		System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration			
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0	42					AC	Approximately 3 inches of asphalt concrete pavement				
						GP	Brown gravel and sand (moist) (fill)				
						GP	Black gravel and sand with occasional wood pieces (moist) (fill)	SS	7.0		
						SP	Gray sand with red-mottling (moist) (fill)				
5	36					SP	Gray sand with red-mottling (moist) (fill)				
						SP-SM	Brown sand with silt and occasional wood pieces (twigs) (moist) (native)				
10	30					SP	Brown to gray sand (moist) (native)	SS	5.0		Black staining in fracture within sand
								MS	151.3		Wood piece with roots at 13½ feet below ground surface
						Bedrock	Bedrock				

Date: 10/3/22 Path: P:\010186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-58



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Figure B-2  
 Sheet 1 of 1



Drilled	Start 1/13/2022	End 1/13/2022	Total Depth (ft)	13	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	19.91 NAVD88		Hammer Data	N/A		Drilling Equipment	Track Rig			
Easting (X) Northing (Y)	1238223 636475		System Datum	WA State Plane North NAD83 (feet)		Groundwater not observed at time of exploration				
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0	42					TS	Topsoil				
						GP	Brown gravel and sand (moist) (fill)	SS	<1		
						GP	Black-brown gravel and sand with trace brick and slag-like metallic fragments (moist) (fill)				
5	42					SP	Brown-reddish brown sand with gravel (moist) (native)				Native over fill, repeating unit, from 4 to 8½ feet below ground surface
						SP	Brown fine to coarse sand (moist) (native)	SS	<1		
10	12					SM	Brown-gray silty sand (moist) (fill)				NAPL observed on core from 8½ to 12½ feet below ground surface
							Bedrock				
							Bedrock				
								HS	63.7		

Date:10/3/22 Path:P:\01186890\GINT\01868903.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-59



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Figure B-3  
 Sheet 1 of 1

Drilled	Start 1/10/2022	End 1/10/2022	Total Depth (ft)	15.25	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	19.63 NAVD88		Hammer Data	N/A			Drilling Equipment	Track Rig		
Easting (X) Northing (Y)	1238199 636464		System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration			
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Depth (feet)	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	36					AC	Approximately 3 inches of asphalt concrete pavement				
						GP	Dark brown gravel (dry) (fill)				
						GP	Black gravel with sand and occasional brick fragments (moist) (fill)	SS	5.0		
5	36					SP-SM	Brown sand with silt and gravel (moist) (fill)				
10	42					SP-SM	Gray-brown sand with silt and gravel (moist) (native)	SS	6.9		
15	3					Bedrock	Bedrock	SS	33.7		

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-60



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure B-4  
Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Drilled	Start 1/13/2022	End 1/13/2022	Total Depth (ft)	14	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	19.93 NAVD88		Hammer Data	N/A			Drilling Equipment	Track Rig		
Easting (X) Northing (Y)	1238217 636483		System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration			
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0	48					AC	Approximately 3 inches of asphalt concrete pavement				
						GP	Brown gravel (dry) (fill)				
						GP	Black fine to coarse gravel with sand and occasional slag-like metallic fragments (moist) (fill)	SS	<1		
						GP	Brown gravel with sand and trace wood chips (moist) (fill)				
5	48					SP	Brown fine to coarse sand with occasional gravel (moist) (fill)				
						SP-SM	Brown sand and silt with occasional gravel (moist) (fill)	SS	<1		
10	48					SP	Gray fine to coarse sand with trace wood (moist) (native)				NAPL visible on core; weathered bedrock from 11 to 13 feet below ground surface
								HS	68.7		
						Bedrock	Bedrock				

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-61



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure B-5  
Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Drilled	Start 1/10/2022	End 1/10/2022	Total Depth (ft)	15.75	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	19.56 NAVD88		Hammer Data	N/A			Drilling Equipment	Track Rig		
Easting (X) Northing (Y)	1238173 636443		System Datum	WA State Plane North NAD83 (feet)			See "Remarks" section for groundwater observed			
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		52				AC	Approximately 4 inches of asphalt concrete pavement				
						GP	Brown gravel with sand (moist) (fill)				
						GP	Black gravel with sand, occasional brick fragments and slag-like metallic fragments (moist) (fill)	SS	6.7		
5		30				SP-SM	Brown sand with silt and gravel (moist) (fill)				
10		36				GP-GM	Dark brown gravel with silt and sand (wet) (native)	SS	3.9		NAPL visible on core from 11 to 15 feet below ground surface
15		9						HS	78.9		Groundwater observed at approximately 13 feet below ground surface during drilling; groundwater sample collected
						Bedrock	Bedrock				

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-62



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure B-6  
Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\ENVIRONMENTAL\_STANDARD\_NO\_GW

Drilled	Start 1/10/2022	End 1/10/2022	Total Depth (ft)	15.5	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	19.69 NAVD88		Hammer Data	N/A			Drilling Equipment	Track Rig		
Easting (X) Northing (Y)	1238156 636428		System Datum	WA State Plane North NAD83 (feet)			See "Remarks" section for groundwater observed			
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	36					AC	Approximately 4 inches of asphalt concrete pavement				
						GP	Brown gravel with sand (moist) (fill)				
						GP	Black gravel with sand and occasional brick and slag-like metallic fragments (moist) (fill)	SS	5.2		
5	48					SP	Brown sand with gravel (moist) (fill)				Wood chips observed (approximately 1 to 2 inches thick)
						SPSM	Gray-brown sand with silt and gravel (moist) (fill)	SS	3.2		
10	36						Becomes brown-red/brown				NAPL visible on core from 11½ to 15½ feet below ground surface
						GP-GM	Brown gravel with silt and sand (wet) (native)	HS	35.8		Groundwater observed at approximately 14 feet below ground surface during drilling; groundwater sample was not collected due to insufficient water volume
15	6					Bedrock	Bedrock				

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-63



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Figure B-7  
 Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Drilled	Start 1/10/2022	End 1/10/2022	Total Depth (ft)	15	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	19.3 NAVD88		Hammer Data	N/A			Drilling Equipment	Track Rig		
Easting (X) Northing (Y)	1238134 636409		System Datum	WA State Plane North NAD83 (feet)			See "Remarks" section for groundwater observed			
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0	48					AC	Approximately 3 inches of asphalt concrete pavement				
						GP	Black-dark brown gravel with sand, occasional brick fragments and slag-like metallic fragments (moist fill)	SS	5.2		
5	48										
						SP-SM	Brown-reddish brown sand with silt and gravel (moist fill)	SS	2.7		
10	60										
						SM	Gray-brown silty sand (moist) (native)				
						SP	Gray-brown fine to coarse sand (wet) (native)	MS	6.9		Groundwater observed at approximately 14 feet below ground surface during drilling; groundwater sample collected
15											

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-64



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure B-8  
Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\ENVIRONMENTAL\_STANDARD\_NO\_GW

Drilled	Start 1/11/2022	End 1/11/2022	Total Depth (ft)	16	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	13.28 NAVD88			Hammer Data	N/A			Drilling Equipment	Track Rig	
Easting (X) Northing (Y)	1238070 636456			System Datum	WA State Plane North NAD83 (feet)			See "Remarks" section for groundwater observed		
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0	36					TS	Topsoil				
10						GP	Brown gravel with sand (moist) (fill)				
5	36					SP	Brown sand with occasional gravel (moist) (fill)	NS	4.9		
10	60					SM	Black silty sand with treated wood pieces (50 percent) (moist) (fill)	MS	8.6		NAPL (HS/HO)
10						SP	Gray sand with gravel (wet) (native)				Groundwater observed at approximately 12 feet below ground surface during drilling; groundwater sample collected at 10:45; DUP-1 collected
10						GM	Black silty gravel with sand and occasional oxidized clasts (wet) (native)				
15	12					SP	Gray sand (wet) (native)	HS	85.9		Weathered bedrock; NAPL
							Bedrock				

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-65



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Figure B-9  
 Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Drilled	Start 1/12/2022	End 1/12/2022	Total Depth (ft)	13	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	11.31 NAVD88		Hammer Data	N/A			Drilling Equipment	Track Rig		
Easting (X) Northing (Y)	1238050 636431		System Datum	WA State Plane North NAD83 (feet)			See "Remarks" section for groundwater observed			
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Depth (feet)	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	0	36				AC	Approximately 3 inches of asphalt concrete pavement				
0	0	36				GP	Black gravel and sand (dry) (fill)	SS	<1		
0	0	36				SP	Brown sand with gravel (moist) (fill)				
5	48	48				GP-GM	Black gravel with silt, sand and wood chips (approximately 30 percent) (moist) (fill)	SS	<1		
10	36						Becomes wet				Groundwater observed at approximately 9½ feet below ground surface during drilling; groundwater sample collected
						SP	Gray sand (wet) (native)	HS	33.1		Heavy odor; weathered bedrock
						Bedrock	Bedrock				

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-66



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure B-10  
Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\ENVIRONMENTAL\_STANDARD\_NO\_GW



Drilled	Start 1/12/2022	End 1/12/2022	Total Depth (ft)	13	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	11.61 NAVD88			Hammer Data	N/A			Drilling Equipment	Track Rig	
Easting (X) Northing (Y)	1238033 636422			System Datum	WA State Plane North NAD83 (feet)			See "Remarks" section for groundwater observed		
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Depth (feet)	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	0	36				TS	Topsoil				
5	0	36				SP	Brown sand with occasional gravel (dry) (fill)	NS	<1		
5	5	60				GP-GM	Black sandy gravel with silt and trace wood chips (approximately 30 percent) (moist) (fill)  Becomes wet	HS	8.9		Groundwater observed at approximately 5 feet below ground surface during drilling; groundwater sample collected
10	10	36				SP	Gray sand (wet) (native)	HS	37.3		DUP-2 soil sample collected at 10:20

Boring terminated at approximately 13 feet below ground surface due to refusal

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-67



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure B-11  
Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\ENVIRONMENTAL\_STANDARD\_NO\_GW

Start Drilled	1/12/2022	End	1/12/2022	Total Depth (ft)	13.5	Logged By	KRA	Checked By	NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	12.48 NAVD88		Hammer Data	N/A				Drilling Equipment	Track Rig				
Easting (X) Northing (Y)	1238018 636406		System Datum	WA State Plane North NAD83 (feet)				See "Remarks" section for groundwater observed					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	54					AC	Approximately 4 inches of asphalt concrete pavement				
						GP	Black gravel and sand (dry) (fill)	SS	<1		
						SP-SM	Brown sand with silt and gravel (moist) (fill)				
5	36					GP-GM	Black gravel with silt and sand (moist) (fill)	HS	12.3	Strong odor	
							Becomes wet				
10	42					SP	Gray sand (wet) (native)	HS	40.3	NAPL; heavy odor; weathered bedrock	Groundwater observed at approximately 9 feet below ground surface during drilling; groundwater sample collected
							Bedrock				

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-68



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure B-12  
Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Drilled	Start 1/12/2022	End 1/12/2022	Total Depth (ft)	12	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	12.1 NAVD88		Hammer Data	N/A			Drilling Equipment	Track Rig		
Easting (X) Northing (Y)	1237998 636387		System Datum	WA State Plane North NAD83 (feet)			See "Remarks" section for groundwater observed			
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0	36					AC SP	Approximately 3 inches of asphalt concrete pavement Brown sand with gravel (moist) (fill)	SS	<1		
5	12					GP-GM	Black gravel with silt, sand and wood chips (approximately 50 percent)	HS	13.4		
10	24					SP	Wood chips (30 percent), (wet) (fill) Gray sand (wet) (native)	HS	27.8	NAPL visible on core from 9½ to 11¼ feet below ground surface; weathered bedrock Groundwater observed at approximately 11 feet below ground surface during drilling activities; groundwater sample collected	
						Bedrock	Bedrock				

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-69



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure B-13  
Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Drilled	Start 1/10/2022	End 1/10/2022	Total Depth (ft)	4	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	20.36 NAVD88			Hammer Data	N/A			Drilling Equipment	Track Rig	
Easting (X) Northing (Y)	1238237 636495			System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration		
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		48					AC	Asphalt concrete pavement			
							GP	Brown gravel with sand (moist) (fill)			
							GP	Black gravel with sand and occasional wood (moist) (fill)			
							SP	Brown sand (moist) (native)			
					GP-70-3-4				SS	10.9	
							Bedrock	Bedrock			

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-70



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Drilled	Start 1/10/2022	End 1/10/2022	Total Depth (ft)	4	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	20.66 NAVD88		Hammer Data	N/A			Drilling Equipment	Track Rig		
Easting (X) Northing (Y)	1238255 636510		System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration			
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Depth (feet)	Recovered (in)	Blows/foot	Collected Sample						
0			48				GP	Brown gravel with sand (moist) (fill)			
							GP	Black gravel with sand and occasional wood (moist) (fill)	SS	3.3	
							SP	Brown sand (moist) (native)	SS	11.7	
							Bedrock	Bedrock			

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-71



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Drilled	Start 1/10/2022	End 1/10/2022	Total Depth (ft)	4	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	20.84 NAVD88		Hammer Data	N/A			Drilling Equipment	Track Rig		
Easting (X) Northing (Y)	1238279 636529		System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration			
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Depth (feet)	Recovered (in)	Blows/foot	Collected Sample Sample Name Testing						
0		48					GP	Brown gravel and sand (moist) (fill)			
							GP	Black gravel with sand (moist) (fill)	SS	3.0	
							SP	Brown-gray sand (moist) (native)	SS	9.7	
					GP-72-3-4						
						Bedrock		Bedrock			

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-72



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure B-16  
Sheet 1 of 1

Drilled	Start 1/10/2022	End 1/10/2022	Total Depth (ft)	3	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	21.01 NAVD88		Hammer Data	N/A			Drilling Equipment	Track Rig		
Easting (X) Northing (Y)	1238304 636551		System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration			
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0	36					GP	Brown-black gravel with sand (moist) (fill)	SS	6.8		
				GP-73-2-3		SP	Brown sand (moist) (native)	SS	3.4		
						Bedrock	Bedrock				

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-73



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Figure B-17  
 Sheet 1 of 1

Drilled	Start 1/13/2022	End 1/13/2022	Total Depth (ft)	16	Logged By Checked By	KRA NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	19.66 NAVD88		Hammer Data	N/A		Drilling Equipment	Track Rig			
Easting (X) Northing (Y)	1238178 636439		System Datum	WA State Plane North NAD83 (feet)		See "Remarks" section for groundwater observed				
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Depth (feet)	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	48					TS	Topsoil				
						GP	Black gravel with sand and occasional brick fragments (moist) (fill)				
						GP	Black-dark brown gravel with sand and occasional slag-like metallic fragments (moist) (fill)	SS	<1		
5	48					SP	Brown sand with occasional gravel (moist) (native)				Landslide (?) weathered; native; repeated section overlying fill from 5 to 10½ feet
10	48					SP	Gray fine to coarse sand (moist) (native)	MS	1.8		Fresh native; landslide deposit?
						SM	Brown silty sand (wet) (fill)				NAPL within SM; thick, black from 11 to 15½ feet below ground surface
						SM	Dark brown silty fine to medium sand with trace gravel and occasional shell fragments (wet) (fill)				Groundwater observed at approximately 11½ feet below ground surface during drilling; groundwater sample collected
15	12					SP	Gray sand (wet) (native)	HS	156.9		
							Bedrock				

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Boring GP-74



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW



Start Drilled	1/13/2022	End	1/13/2022	Total Depth (ft)	16	Logged By	KRA	Checked By	NM	Driller	Cascade Drilling LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	19.58 NAVD88			Hammer Data	N/A			Drilling Equipment	Track Rig				
Easting (X) Northing (Y)	1238171 636446			System Datum	WA State Plane North NAD83 (feet)			See "Remarks" section for groundwater observed					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		48				AC	Approximately 3 inches of asphalt concrete pavement				
						GP	Brown gravel with sand (dry) (fill)				
						GP	Black gravel with sand and occasional slag-like metallic fragments (moist) (fill)				
						SP	Brown fine to coarse sand with gravel and occasional slag-like metallic fragments (moist) (fill)	SS	1.7		
5		36				SP	Brown-gray fine to coarse sand with gravel, trace wood and black clasts within fill (moist) (fill)	SS	3.9		
10		48				SM	Brown silty fine to medium sand (moist) (fill)				
15		12					Becomes dark brown and wet	HS	120.7		
							Bedrock				

Significant NAPL present  
Groundwater observed at approximately 15½ feet below ground surface during drilling; groundwater sample collected

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

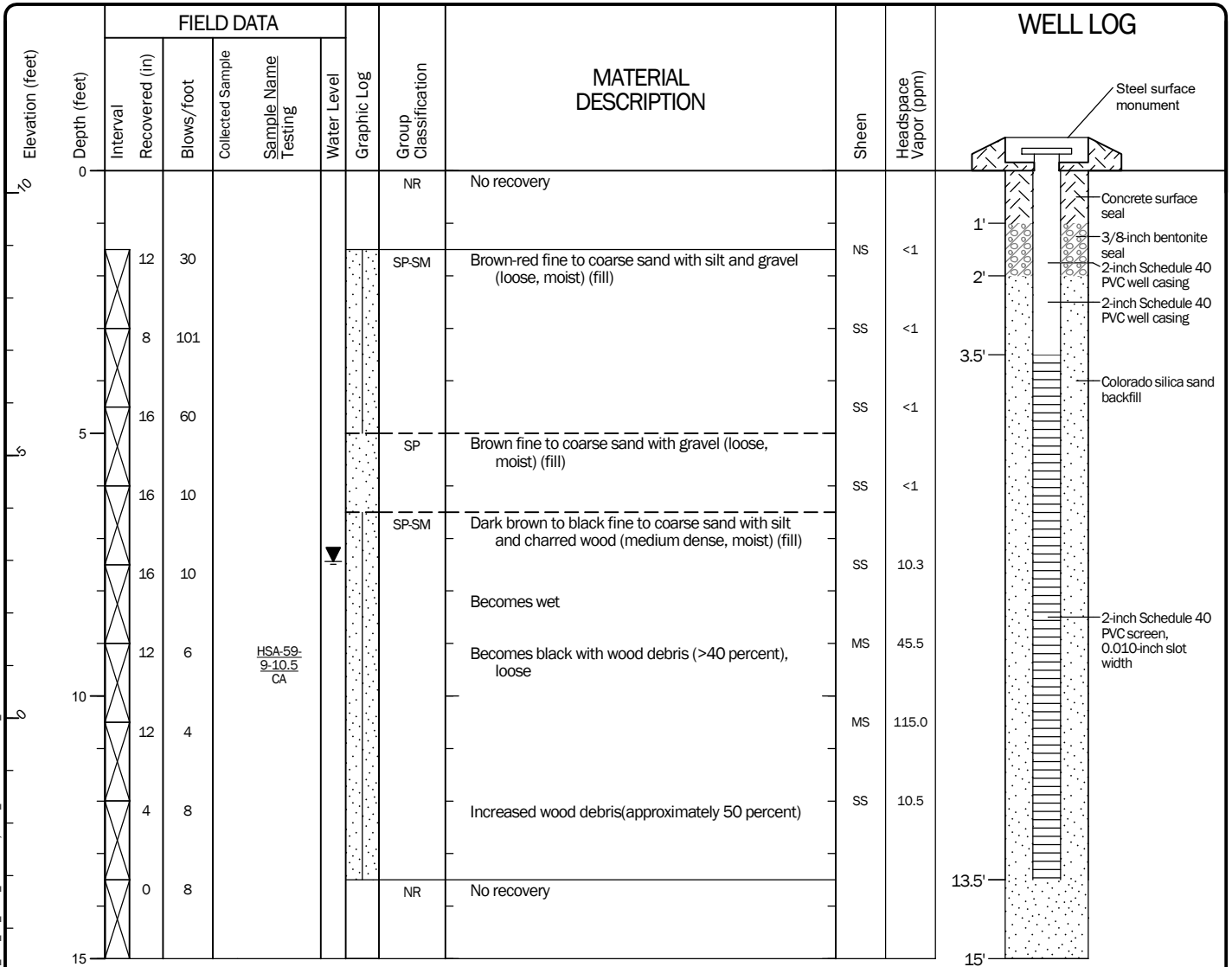
### Log of Boring GP-75



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Start Drilled 8/30/2021	End 8/30/2021	Total Depth (ft)	15	Logged By Checked By	KRA NM	Driller Cascade Drilling LP	Drilling Method	Hollow-stem Auger
Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop			Drilling Equipment	Track Rig		A 2-in well was installed on 8/30/2021 to a depth of 13.5 ft.	
Surface Elevation (ft) Vertical Datum	10.42 NAVD88			Top of Casing Elevation (ft)	10.40		Groundwater Date Measured	Depth to Water (ft) Elevation (ft)
Easting (X) Northing (Y)	1237827 636495			Horizontal Datum	WA State Plane North NAD83 (feet)		9/1/2021	7.44 2.98
Notes:								



Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Monitoring Well MW-59

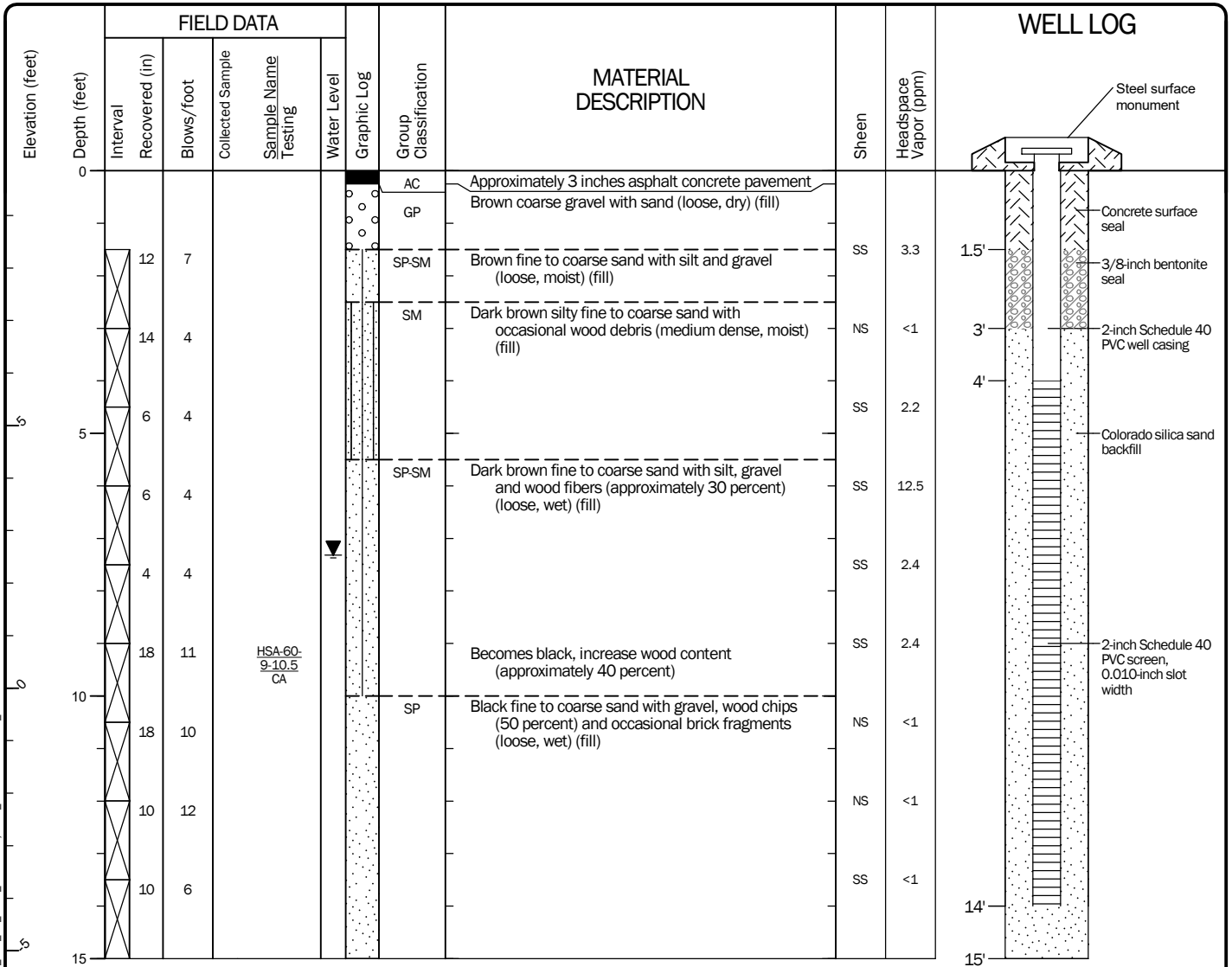


Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure B-20  
Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEIS\_ENVIRONMENTAL\_WELL

Start Drilled 8/30/2021	End 8/30/2021	Total Depth (ft)	15	Logged By Checked By	KRA NM	Driller Cascade Drilling LP	Drilling Method	Hollow-stem Auger
Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop			Drilling Equipment		Track Rig		A 2-in well was installed on 8/30/2021 to a depth of 14 ft.
Surface Elevation (ft)		9.85		Top of Casing Elevation (ft)		9.47		
Vertical Datum		NAVD88		Groundwater Date Measured		Depth to Water (ft)		Elevation (ft)
Easting (X) Northing (Y)		1237955 636579		Horizontal Datum		WA State Plane North NAD83 (feet)		
						9/1/2021		7.32 2.53
Notes:								



Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Monitoring Well MW-60

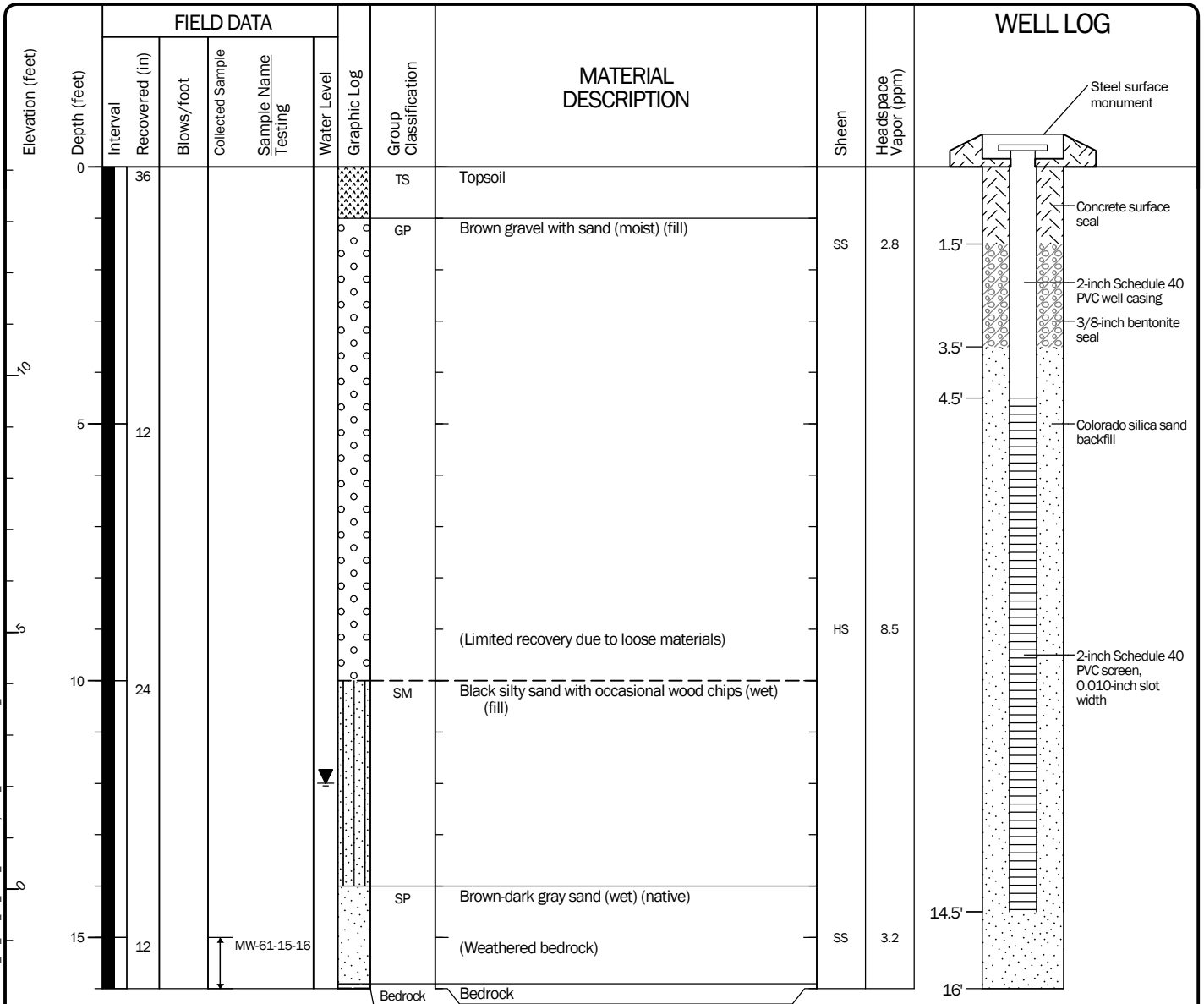


Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure B-21  
Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_ENVIRONMENTAL\_WELL

Start Drilled 1/11/2022	End 1/11/2022	Total Depth (ft)	16	Logged By Checked By	KRA NM	Driller Cascade Drilling LP	Drilling Method	Direct Push
Hammer Data		N/A		Drilling Equipment		Track Rig		A 2-in well was installed on 1/11/2022 to a depth of 14.5 ft.
Surface Elevation (ft)		14.06		Top of Casing Elevation (ft)		13.57		Groundwater
Vertical Datum		NAVD88		Horizontal Datum		WA State Plane North NAD83 (feet)		Date Measured
Easting (X)		1238080		Horizontal Datum		WA State Plane North NAD83 (feet)		Depth to Water (ft)
Northing (Y)		636464		Horizontal Datum		WA State Plane North NAD83 (feet)		Elevation (ft)
								1/11/2022
								12.00
								2.06
Notes:								



Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Monitoring Well MW-61

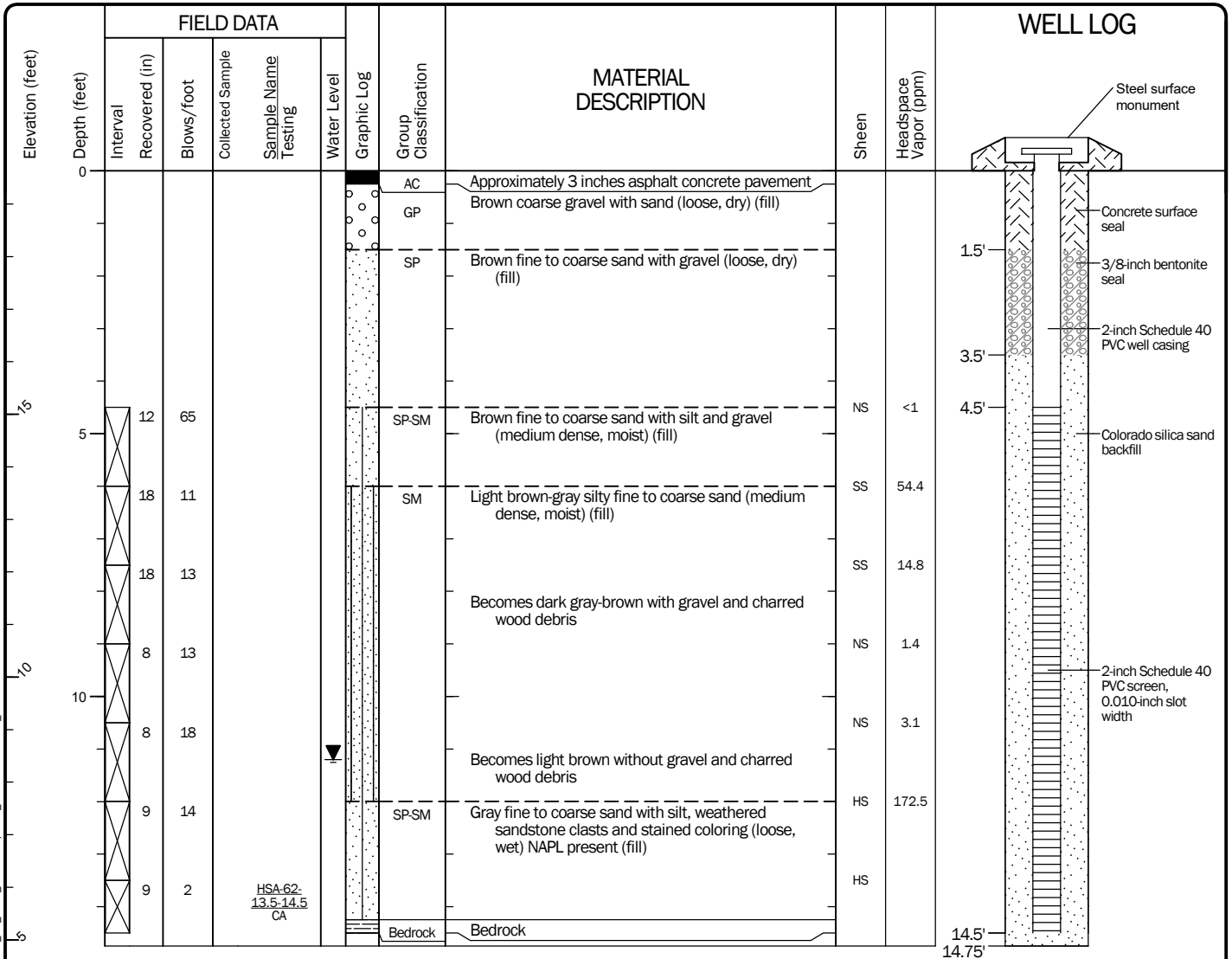


Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure B-22  
Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_WELL

Start Drilled 8/31/2021	End 8/31/2021	Total Depth (ft) 14.75	Logged By Checked By KRA NM	Driller Cascade Drilling LP	Drilling Method Hollow-stem Auger
Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop	Drilling Equipment Track Rig	A 2-in well was installed on 8/31/2021 to a depth of 14.5 ft.		
Surface Elevation (ft) Vertical Datum	19.63 NAVD88	Top of Casing Elevation (ft) 19.26	Groundwater Date Measured 9/1/2021	Depth to Water (ft) 11.20	Elevation (ft) 8.43
Easting (X) Northing (Y)	1238162 636434	Horizontal Datum WA State Plane North NAD83 (feet)			
Notes:					



Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Monitoring Well MW-62



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Figure B-23  
 Sheet 1 of 1

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEIS\_ENVIRONMENTAL\_WELL

Date Excavated	9/1/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft) Vertical Datum	54.76 NAVD88		Easting (X) Northing (Y)	1238377 636547		Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)	

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
			HA-15-0-1	SM	Brown silty fine to medium sand with gravel and brick debris (dry) (fill)	NS		
	1		HA-15-1-2					
	2							

Date:10/3/22 Path:P:\0.0186890.GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_TESTPIT\_4P\_ENV

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

**Log of Soil Sample Location HA-15**



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date Excavated	9/1/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft)	53.56	Easting (X)	1238253	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636433	Horizontal Datum	NAD83 (feet)			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
		HA-16-0-1		SM	Brown silty fine to medium sand with occasional gravel (dry) (fill)	NS		
	1	HA-16-1-2			Becomes dark brown	NS		
	2							

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-16



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	9/1/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft) Vertical Datum	57.91 NAVD88		Easting (X) Northing (Y)	1238153 636341		Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)	

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing						
51	1		HA-17-1-2		SM	Brown silty fine to medium sand with occasional gravel and sandstone cobbles (dry) (fill)			
50	2								

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-17



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date:10/3/22 Path:P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV



Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft)	59.61	Easting (X)	1238121	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636288	Horizontal Datum	NAD83 (feet)			

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing						
59	1		HA-18-1-2		SP-SM	Brown fine to medium sand with silt and occasional gravel (dry) (fill)			
58	2								

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

**Log of Soil Sample Location HA-18**



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft)	60.55	Easting (X)	1238155	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636282	Horizontal Datum	NAD83 (feet)			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
80			HA-19-0-1	SM	Brown silty fine to medium sand with occasional gravel (dry) (fill)			
1			HA-19-1-2				NS	
80								
2								

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-19



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft) Vertical Datum	59.43 NAVD88		Easting (X) Northing (Y)	1238184 636324		Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)	

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
0			HA-20-0-1	SM	Brown silty fine to medium sand with occasional gravel (dry) (fill)			
1			HA-20-1-2				NS	
2								

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-20



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date:10/3/22 Path:P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	9/1/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft) Vertical Datum	58.52 NAVD88		Easting (X) Northing (Y)	1238209 636362		Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)	

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
50				SM	Brown silty fine to medium sand with occasional gravel (dry) (fill)			
	1		HA-21-1-2			NS		
51								
2								

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-21



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	9/1/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft) Vertical Datum	55.17 NAVD88		Easting (X) Northing (Y)	1238241 636411		Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)	

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
65			HA-22-0-1	SM	Brown silty fine to medium sand with occasional gravel, intermittent asphalt pieces (dry) (fill)			
	1		HA-22-1-2			NS		
64								
	2							

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-22



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	9/1/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft) Vertical Datum	55.74 NAVD88		Easting (X) Northing (Y)	1238332 636444		Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)	

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing						
55	1		HA-23-1-2		SM	Brown silty fine to medium sand with occasional gravel and cobbles (dry) (fill)		NS	
54	2								

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-23



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft)	79.89	Easting (X)	1238408	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636497	Horizontal Datum	NAD83 (feet)			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
		HA-24-0-1		SM	Brown silty fine to medium sand with occasional gravel (dry) (fill)			
1		HA-24-1-2					NS	
2								

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-24



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_TESTPIT\_4P\_ENV

Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft)	80.55	Easting (X)	1238429	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636489	Horizontal Datum	NAD83 (feet)			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
80		HA-25-0-1		SM	Brown silty fine to medium sand with occasional gravel (dry) (fill)			
1		HA-25-1-2			With brick fragments and occasional asphalt pieces	NS		
19								
2								

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-25



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV



Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft)	79.64	Easting (X)	1238412	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636480	Horizontal Datum	NAD83 (feet)			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
		HA-26-0-1		SM	Brown silty fine to medium sand with gravel (dry) (fill)			
	1	HA-26-1-2					NS	
	2							

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-26



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft)	75.38	Easting (X)	1238304	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636369	Horizontal Datum	NAD83 (feet)			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
1.5		HA-27-0-1		SM	Brown silty fine to medium sand with gravel and occasional cobbles (dry) (fill)			
1		HA-27-1-2				NS		
2								

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-27



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft)	74.65	Easting (X)	1238295	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636336	Horizontal Datum	NAD83 (feet)			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
		HA-28-0-1		SM	Brown silty fine to medium sand with gravel and brick debris (dry) (fill)			
14								
1		HA-28-1-2					NS	
13								
2								

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-28



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_TESTPIT\_4P\_ENV

Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft)	63.2	Easting (X)	1238254	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636335	Horizontal Datum	NAD83 (feet)			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
0			HA-29-0-1	SM	Brown silty fine to medium sand with gravel (dry) (fill)			
1			HA-29-1-2				NS	
2								

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-29



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft) Vertical Datum	61.5 NAVD88	Easting (X) Northing (Y)	1238229 636287	Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
67	1	HA-30-1-2		SM	Brown silty fine to medium sand with gravel (dry) (fill)	NS		
60	2							

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-30



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date:10/3/22 Path:P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft)	63.09	Easting (X)	1238197	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636250	Horizontal Datum	NAD83 (feet)			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
0			HA-31-0-1	SM	Brown silty fine to medium sand with occasional gravel (dry) (fill)			
1			HA-31-1-2				NS	
2								

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-31



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft)	65.08	Easting (X)	1238262	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636306	Horizontal Datum	NAD83 (feet)			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
65		HA-32-0-1		SM	Brown silty fine to medium sand with gravel (dry) (fill)			
64	1	HA-32-1-2				NS		
	2							

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-32



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date:10/3/22 Path:P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft) Vertical Datum	75.45 NAVD88		Easting (X) Northing (Y)	1238314 636342		Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)	

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing					
1.5		HA-33-0-1		SM	Brown silty fine to medium sand with occasional gravel, hard concrete pieces (dry) (fill)			
1		HA-33-1-2					NS	
1.5								
2								

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-33



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV



Date Excavated	8/31/2021	Total Depth (ft)	2	Logged By	JBA	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (ft) Vertical Datum	75.51 NAVD88		Easting (X) Northing (Y)	1238335 636372		Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)	

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Testing Sample	Sample Name Testing						
15					SM	Brown silty fine to medium sand with occasional gravel (dry) (fill)			
	1		HA-34-1-2				NS		
14									
	2								

Note: See Figure B-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on 2022 Larry Steele & Associates Topographic Survey. Vertical approximated based on 2022 Larry Steele & Associates Topographic Survey.

### Log of Soil Sample Location HA-34



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date:10/3/22 Path:P:\0186890\GINT\018689003.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

**APPENDIX C**  
**Marine Sediment Logs**

## SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		<b>GW</b>	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>GP</b>	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>GM</b>	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		<b>SW</b>	WELL-GRADED SANDS, GRAVELLY SANDS
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>SP</b>	POORLY-GRADED SANDS, GRAVELLY SAND
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>SM</b>	SILTY SANDS, SAND - SILT MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		<b>ML</b>	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
		LIQUID LIMIT LESS THAN 50		<b>CL</b>	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		LIQUID LIMIT LESS THAN 50		<b>OL</b>	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		<b>MH</b>	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
		LIQUID LIMIT GREATER THAN 50		<b>CH</b>	INORGANIC CLAYS OF HIGH PLASTICITY
		LIQUID LIMIT GREATER THAN 50		<b>OH</b>	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS				<b>PT</b>	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

### Sampler Symbol Descriptions

	2.4-inch I.D. split barrel / Dames & Moore (D&M)
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab
	Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

"P" indicates sampler pushed using the weight of the drill rig.

"WOH" indicates sampler pushed using the weight of the hammer.

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

## ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	<b>AC</b>	Asphalt Concrete
	<b>CC</b>	Cement Concrete
	<b>CR</b>	Crushed Rock/ Quarry Spalls
	<b>SOD</b>	Sod/Forest Duff
	<b>TS</b>	Topsoil

### Groundwater Contact



Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

### Graphic Log Contact

Distinct contact between soil strata

Approximate contact between soil strata

### Material Description Contact

Contact between geologic units

Contact between soil of the same geologic unit

### Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DD	Dry density
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
Mohs	Mohs hardness scale
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PL	Point lead test
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
UU	Unconsolidated undrained triaxial compression
VS	Vane shear

### Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen

## Key to Exploration Logs



Figure C-1

Date Excavated	6/23/2021	Total Depth (m)	0.6	Logged By	KRA/DC	Excavator		See "Remarks" section for groundwater observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (m) Vertical Datum	0.85 NAVD88	Easting (X) Northing (Y)	1238247 636652	Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
0.8			PRDI-1-SC-0-15		SP	Dark brown fine to coarse sand with occasional silt, gravel, shell hash (approximately 50 percent) and trace brick fragments (loose, moist)	NS	0%	Groundwater observed at approximately 12 centimeters
	0.2		PRDI-1-SC-15-60		SP-SM	Black fine to coarse sand with silt and occasional shell fragments (approximately 10 percent) (loose, wet)	NS	0%	
0.6									
0.4									
0.6									

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-01 (SC)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-2  
Sheet 1 of 1

Date: 9/28/22; Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	6/23/2021	Total Depth (m)	0.3	Logged By	KRA/DC	Excavator		See "Remarks" section for groundwater observed
				Checked By	NM	Equipment	Hand Tools	See "Remarks" section for caving observed
Surface Elevation (m) Vertical Datum	1.18 NAVD88	Easting (X) Northing (Y)	1238201 636603	Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
1.0			PRDI-2-SC-0-15		SP	Black fine to coarse sand with gravel, shell hash (approximately 20 percent) and wood shavings (loose, wet)	MS	<25%	Groundwater observed at approximately 4 centimeters
	0.2		PRDI-2-SC-15-30			Shell hash (approximately 10 percent), wood fibers (approximately 30 to 40 percent), 3- to 4-inch wood shavings (approximately 40 percent)	SS	25-50%	Caving observed at approximately 10 centimeters

Note: See Figure C-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-02 (SC)



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Figure C-3  
 Sheet 1 of 1

Date Excavated	6/22/2021	Total Depth (m)	0.52	Logged By	KRA/DC	Excavator		See "Remarks" section for groundwater observed
				Checked By	NM	Equipment	Hand Tools	See "Remarks" section for caving observed
Surface Elevation (m) Vertical Datum	4.53 NAVD88	Easting (X) Northing (Y)	1238134 636532	Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
4.4			PRDI-3-SC-0-15		SP	Brown fine to coarse sand with occasional gravel and shell hash (50 percent) (loose, moist)			
	0.2		PRDI-3-SC-15-60			With brick fragments (approximately 5 percent)		NS	0%
4.2						Becomes wet			Groundwater seepage observed at approximately 30 centimeters
	0.4								Severe caving observed at 52 centimeters

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-03 (SC)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-4  
Sheet 1 of 1

Date: 9/28/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	6/24/2021	Total Depth (m)	0.6	Logged By	KRA/DC	Excavator		See "Remarks" section for groundwater observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (m) Vertical Datum	0.49 NAVD88	Easting (X) Northing (Y)	1238122 636561	Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing					
0.4		PRDI-4-SC-0-15		SP	Black fine to coarse sand with wood debris (approximately 20 percent) (loose, wet)	HS	<25%	Groundwater observed at approximately 2 centimeters
	0.2	PRDI-4-SC-15-60		SP-SM	Brown fine to coarse sand with silt and wood shavings (approximately 40 percent)(loose, wet)	HS	25-50%	
0.2				SP	Black fine to coarse sand with wood shavings (approximately 30 percent) and brick fragments (<10 percent) (loose, wet)			
	0.4						25-50%	
0.0								
	0.6							

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-04 (SC)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-5  
Sheet 1 of 1

Date: 9/28/22; Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	6/22/2021	Total Depth (m)	0.6	Logged By	KRA/DC	Excavator		See "Remarks" section for groundwater observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (m) Vertical Datum	5.05 NAVD88	Easting (X) Northing (Y)	1238081 636517	Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
5.0			PRDI-5-SC-0-15		SP	Light brown fine to coarse sand with shell has (>50 percent) (loose, moist)	NS	0%	Groundwater observed at approximately 40 centimeters
	0.2		PRDI-5-SC-15-60			With occasional brick fragments			
4.8				SP-SM	Dark brown-black sand with silt, shell hash (approximately 10 to 30 percent) and trace concrete fragments (loose, moist)				
	0.4			SP	Brown fine to coarse sand with shell hash (>50 percent) (loose, moist to wet)	NS	0%		
4.6						Trace brick fragments	NS	0%	
0.6									

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-05 (SC)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 9/28/22; Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_TESTPIT\_4P\_ENV



Date Excavated	6/22/2021	Total Depth (m)	0.6	Logged By	KRA/DC	Excavator		See "Remarks" section for groundwater observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (m) Vertical Datum	0.67 NAVD88	Easting (X) Northing (Y)	1238087 636555	Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
0.6			PRDI-6-SC-0-15	[Graphic Log: Stippled pattern]	SP	Brown fine to coarse sand with shell hash (approximately 50 percent) (loose, wet)			Groundwater observed at approximately 18 centimeters
0.2			PRDI-6-SC-15-60			With wood debris and small twigs (<5 percent)	NS	0%	
0.4						With wood shavings (approximately 10 percent) and trace brick fragments		<25%	
0.6								<25%	

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-06 (SC)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-7  
Sheet 1 of 1

Date: 9/28/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	6/22/2021	Total Depth (m)	0.6	Logged By	KRA/DC	Excavator		See "Remarks" section for groundwater observed
				Checked By	NM	Equipment	Hand Tools	See "Remarks" section for caving observed
Surface Elevation (m) Vertical Datum	1.8 NAVD88	Easting (X) Northing (Y)	1238036 636554	Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
1.6	0.2		PRDI-7-SC-0-15	[Dotted pattern]	SP	Brown fine to coarse sand with gravel, shell hash (approximately 50 percent) and occasional brick fragments (<10 percent) (loose, moist)	NS	0%	
1.4	0.4		PRDI-7-SC-15-60			Decreased shell hash (approximately 30 percent)			
1.2	0.6			[Horizontal lines]	Brick	Brick pad (articulated)			Groundwater observed at approximately 48 centimeters Caving observed at approximately 50 centimeters

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-07 (SC)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 9/28/22; Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	6/24/2021	Total Depth (m)	0.6	Logged By	KRA/DC	Excavator		See "Remarks" section for groundwater observed
				Checked By	NM	Equipment	Hand Tools	See "Remarks" section for caving observed
Surface Elevation (m) Vertical Datum	1.49 NAVD88	Easting (X) Northing (Y)	1238001 636580	Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
1/4			PRDI-8-SC-0-15	[Graphic Log: Dotted pattern]	SP	Brown fine to coarse sand with gravel, shell hash (>50 percent) and brick fragments (<10 percent) (loose, moist)		0%	Groundwater observed at approximately 30 centimeters
0.2			PRDI-8-SC-15-60			Becomes wet	NS	0%	
1/2					SP-SM	Black fine to coarse sand with silt, gravel, shell fragments (approximately 30 percent), concrete debris (<10 percent) and brick fragments (<10 percent) (loose, wet)			Caving observed at approximately 45 centimeters
0.4									
1/0									
0.6									

Note: See Figure C-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-08 (SC)



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Figure C-9  
 Sheet 1 of 1

Date: 9/28/22; Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	6/24/2021	Total Depth (m)	0.6	Logged By	KRA/DC	Excavator		See "Remarks" section for groundwater observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (m) Vertical Datum	1.62 NAVD88	Easting (X) Northing (Y)	1237955 636623	Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
1.6			PRDI-9-SS-0-12 PRDI-9-SC-0-15 PRDI-9-SC-0-45	[Graphic Log: Dotted pattern]	SP	Black fine to coarse sand with occasional gravel, shell hash (approximately 50 percent) and brick fragments (<10 percent) (loose, moist)	NS	0%	Groundwater observed at approximately 24 centimeters
1.4	0.2		PRDI-9-SC-15-60						
1.2	0.4					Decreased shell hash (approximately 30 percent) and increased brick fragments (approximately 30 percent)		0%	
0.6									

Note: See Figure C-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-09 (SS and SC)



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date: 9/28/22; Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY\GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	6/24/2021	Total Depth (m)	0.6	Logged By	KRA/DC	Excavator		See "Remarks" section for groundwater observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (m)	2.85	Easting (X)	1237894	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636625	Horizontal Datum	NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
2.8		PRDI-10-SS-0-12 PRDI-10-SC-0-15 PRDI-10-SC-0-45		[Graphic Log: Sand with gravel and shell]	SP	Brown fine to coarse sand with occasional gravel and shell has (approximately 50 percent) (loose, moist)		0%	Groundwater observed at approximately 35 centimeters
2.6	0.2	PRDI-10-SC-15-60				Becomes wet			
2.4	0.4			[Graphic Log: Dark brown-black sand with silt, gravel and brick fragments]	SP-SM	Dark brown-black fine to coarse sand with silt, gravel and brick fragments (approximately 10 percent) (loose, wet)	MS	0%	
0.6	0.6					With 3- to 4-inch wood fibers (approximately 30 percent)	HS	25-50%	

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-10 (SS and SC)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 9/28/22; Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY\GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	6/25/2021	Total Depth (m)	0.6	Logged By	KRA/DC	Excavator		See "Remarks" section for groundwater observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (m)	3.84	Easting (X)	1237823	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	636571	Horizontal Datum	NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
3.8			PRDI-11-SS-0-12 PRDI-11-SC-0-15 PRDI-11-SC-0-45		SP	Gray fine to coarse sand with gravel, shell hash (>50 percent) and occasional brick fragments (<10 percent) (loose, moist)		0%	
3.6	0.2		PRDI-11-SC-15-60		SM	Brown silty sand with wood waste (>75 percent) (loose, wet)	MS	>50%	Groundwater observed at approximately 30 centimeters
3.4	0.4								
	0.6								

Note: See Figure C-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-11 (SS and SC)



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date: 9/28/22; Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY\GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	6/24/2021	Total Depth (m)	0.6	Logged By	KRA/DC	Excavator		See "Remarks" section for groundwater observed
				Checked By	NM	Equipment	Hand Tools	See "Remarks" section for caving observed
Surface Elevation (m) Vertical Datum	3.43 NAVD88	Easting (X) Northing (Y)	1237753 636497	Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
3.4			PRDI-12-SS-0-12 PRDI-12-SC-0-15 PRDI-12-SC-0-45		SP-SM	Brown fine to coarse sand with silt, occasional gravel, shell hash (approximately 10 percent), wood shavings (approximately 30 percent) and brick fragments (approximately 10 percent) (loose, wet)	HS	25-50%	Groundwater observed at approximately 4 centimeters
	0.2		PRDI-12-SC-15-60			Increased wood shavings (approximately 40 percent)			Caving observed at approximately 15 centimeters
3.2									
	0.4				SP	Red-brown fine to coarse sand with occasional gravel and wood shavings (approximately 50 percent) (loose, wet)	HS	>50%	
3.0									
	0.6								

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-12 (SS and SC)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 9/28/22; Path: P:\0\_0186890\_GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY\GLB\GEIB\_TESTPIT\_4P\_ENV

Drilled	Start 9/15/2021	End 9/15/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-2.02 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish	
Easting (X) Northing (Y)		1238810 637553			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		2:00:00 PM	-4.33	2.31

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-13-SS			SP-SM	Black fine to coarse sand with silt	NS	0%	Shell hash: absent Vegetation/biota: eelgrass No odor

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-13 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME



Drilled	Start 9/15/2021	End 9/15/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab	
Surface Elevation (m) Vertical Datum		-5.92 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish
Easting (X) Northing (Y)		1238563 637503			System Datum		WA State Plane North NAD83 (feet)		Surface Water		
Notes:		Time Measured		Depth to Mudline (m)		Water Elevation (m)		9:00:00 AM		-6.13 0.21	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-14-SS			SP-SM	Olive fine sand and silt	NS	<25%	Shell hash: absent Vegetation/biota: none No odor
							SP-SM	Black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-14 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/15/2021	End 9/15/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab	
Surface Elevation (m) Vertical Datum		-2.05 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish
Easting (X) Northing (Y)		1238721 637437			System Datum		WA State Plane North NAD83 (feet)		Surface Water		
Notes:		Time Measured		Depth to Mudline (m)		Water Elevation (m)		3:45:00 PM		-4.30 2.25	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-15-SS			SP-SM	Dark brown fine to coarse sand with silt	NS	0%	Shell hash: present Vegetation/biota: degraded organic matter (roots, few shoots of eelgrass No odor
							SP-SM	Black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-15 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab	
Surface Elevation (m) Vertical Datum	-5.35 NAVD88			Hammer Data				Drilling Equipment	Research Vessel Samish		
Easting (X) Northing (Y)	1238539 637382			System Datum	WA State Plane North NAD83 (feet)			Surface Water	Depth to Mudline (m)	Water Elevation (m)	
Notes:								Time Measured	4:10:00 PM	-7.44	2.09

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS			
	Depth (meters)	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing					Water Level	Graphic Log	Group Classification
0					PRDI-16-SS				ML	Olive fine silt	NS	<25%	Shell hash: absent Vegetation/biota: fine degraded organic matter (roots?) fibrous No odor
									SP-SM	Black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-16 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-17  
Sheet 1 of 1

Drilled	Start 9/15/2021	End 9/15/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC		Drilling Method	Power Grab	
Surface Elevation (m) Vertical Datum		-1.45 NAVD88			Hammer Data		Drilling Equipment					Research Vessel Samish
Easting (X) Northing (Y)		1238521 637161			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured 10:25:00 AM		-2.29		0.84

Elevation (meters)	Depth (meters)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					
0				↑	PRDI-18-SS		SP-SM	Gray fine sand with silt	NS	0%	Shell hash: absent Vegetation/biota: eelgrass, clam shell, fibrous roots (degraded) Light H <sub>2</sub> S odor
				↓			SP-SM	Black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-18 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-5.38 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish	
Easting (X) Northing (Y)		1238451 637209			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		4:00:00 PM	-7.50	2.12

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-19-SS			ML	Olive fine silt	NS	<25%	Shell hash: absent Vegetation/biota: none No odor
							SP-SM	Black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-19 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-7.14 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish	
Easting (X) Northing (Y)		1238332 637313			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		3:45:00 PM	-9.30	2.16

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-20-SS			ML	Olive fine silt	NS	0%	Shell hash: absent Vegetation/biota: cockle shell intact, other broken mussel shell No odor
							SP-SM	Black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-20 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY\GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab
Surface Elevation (m) Vertical Datum	-7.63 NAVD88			Hammer Data				Drilling Equipment	Research Vessel Samish	
Easting (X) Northing (Y)	1238268 637368			System Datum	WA State Plane North NAD83 (feet)			Surface Water	Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured 3:40:00 PM	-9.81	2.18

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS		
	Depth (meters)	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing					Water Level	Graphic Log
0					PRDI-21-SS			ML	Olive fine silt	NS	0%	Shell hash: absent Vegetation/biota: trace degraded organic matter (roots?) fibrous No odor
								SP-SM	Black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-21 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-21  
Sheet 1 of 1

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/15/2021	End 9/15/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-2.07 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish	
Easting (X) Northing (Y)		1238253 636824			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured 10:45:00 AM		-4.33	2.26	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-22-SS			ML	Gray silt with fine sand	NS	0%	Shell hash: absent Vegetation/biota: eelgrass, shell fragments Moderate H <sub>2</sub> S odor
							SP-SM	Black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-22 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-22  
Sheet 1 of 1



Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab	
Surface Elevation (m) Vertical Datum		-7.85 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish
Easting (X) Northing (Y)		1238029 637061			System Datum		WA State Plane North NAD83 (feet)		Surface Water		
Notes:		Time Measured		Depth to Mudline (m)		Water Elevation (m)		3:20:00 PM		-10.10 2.25	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level				
0				PRDI-23-SS			SP-SM	NS	0%	Shell hash: absent Vegetation/biota: shell fragments (trace), degraded organic matter (roots?) No odor
							SP-SM			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-23 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-23  
Sheet 1 of 1

Drilled	Start 9/15/2021	End 9/15/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-2.96 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish	
Easting (X) Northing (Y)		1237969 636700			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		1:16:00 PM	-5.06	2.10

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-24-SS			SP-SM	Brown fine to coarse sand with silt	NS	<25%	Shell hash: present Vegetation/biota: eelgrass No odor Sawdust at surface in overlying water when dewatering
							SP-SM	Gray to black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-24 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-24  
Sheet 1 of 1

Drilled	Start 9/15/2021	End 9/15/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-5.33 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish	
Easting (X) Northing (Y)		1237946 636780			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		-6.46	1.13	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-25-SS			SP-SM	Gray fine to coarse sand with silt	NS	0%	Shell hash: absent Vegetation/biota: none Light H <sub>2</sub> S odor
							SP-SM	Black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-25 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-25  
Sheet 1 of 1

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab	
Surface Elevation (m) Vertical Datum		-7.45 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish
Easting (X) Northing (Y)		1237913 636903			System Datum		WA State Plane North NAD83 (feet)		Surface Water		
Notes:		Time Measured		Depth to Mudline (m)		Water Elevation (m)		3:00:00 PM		-9.69 2.24	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-26-SS			ML	Olive silt with fine sand	NS	0%	Shell hash: absent Vegetation/biota: none No odor
							SP-SM	Black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-26 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-8.5 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish	
Easting (X) Northing (Y)		1237724 636907			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		2:25:00 PM	-10.80	2.30

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-27-SS			ML	Gray silt to fine sand	NS	0%	Shell hash: absent Vegetation/biota: clam shell intact, degraded fibrous roots Moderate H <sub>2</sub> S odor
							SP-SM	Black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-27 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-9.49 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish	
Easting (X) Northing (Y)		1237705 637020			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		2:45:00 PM	-11.80	2.31

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-28-SS			ML	Olive silt and fine sand	NS	0%	Shell hash: absent Vegetation/biota: degraded roots (trace) No odor
							SP-SM	Gray to black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-28 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY\GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/15/2021	End 9/15/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab	
Surface Elevation (m) Vertical Datum		-1.84 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish
Easting (X) Northing (Y)		1237739 636628			System Datum		WA State Plane North NAD83 (feet)		Surface Water		
Notes:		Time Measured 11:35:00 AM		Depth to Mudline (m)		-3.23		Water Elevation (m)		1.39	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level				
0				PRDI-29-SS			SP-SM			Shell hash: present Vegetation/biota: eelgrass, shell fragments-intact shell Light H <sub>2</sub> S odor Sawdust throughout extent of sample collected
							SP-SM			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

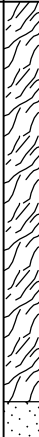

### Log of Subtidal Sediment Sample Location PRDI-29 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab
Surface Elevation (m) Vertical Datum	-1.6 NAVD88			Hammer Data				Drilling Equipment	Research Vessel Samish	
Easting (X) Northing (Y)	1237532 636413			System Datum	WA State Plane North NAD83 (feet)			Surface Water	Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured 11:35:00 AM	-3.41	1.81

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-30-SS			Sawdust	Sawdust	NS	>50%	Shell hash: absent Vegetation/biota: none Strong H <sub>2</sub> S odor
							SP	Dark gray coarse sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-30 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME



Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-7.04 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish	
Easting (X) Northing (Y)		1237430 636475			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured 11:15:00 AM		-8.56		1.52

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-31-SS			ML	Olive silt with fine sand	NS	<25%	Shell hash: absent Vegetation/biota: none No odor Dimensional lumber
							SP-SM	Gray-black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-31 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-31  
Sheet 1 of 1

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab
Surface Elevation (m) Vertical Datum	-9.54 NAVD88			Hammer Data				Drilling Equipment	Research Vessel Samish	
Easting (X) Northing (Y)	1237368 636605			System Datum	WA State Plane North NAD83 (feet)			Surface Water	Depth to Mudline (m)	Water Elevation (m)
Notes:							Time Measured 10:50:00 AM	-11.10	1.56	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level				
0				PRDI-32-SS			ML	NS	0%	Shell hash: absent Vegetation/biota: 0-5 cm has worms and small hermit crab, intact shell clams No odor
							SP-SM			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-32 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab
Surface Elevation (m) Vertical Datum	-7.07 NAVD88			Hammer Data				Drilling Equipment	Research Vessel Samish	
Easting (X) Northing (Y)	1237320 636402			System Datum	WA State Plane North NAD83 (feet)			Surface Water	Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured 10:30:00 AM	-8.60	1.53

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-34-SS			ML	Olive silt with fine sand	NS	25%	Shell hash: absent Vegetation/biota: none Moderate H <sub>2</sub> S odor Wood chunks interspersed
							SP-SM	Black fine to coarse sand with silt and wood			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-34 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-33  
Sheet 1 of 1

Drilled	Start 9/16/2021	End 9/16/2021	Total Depth (m)	0.9	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Surface Elevation (m) Vertical Datum	-4.36 NAVD88			Hammer Data				Drilling Equipment	Research Vessel Samish	
Easting (X) Northing (Y)	1238205 636871			System Datum	WA State Plane North NAD83 (feet)			Surface Water	Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured 11:56:00 AM	-4.33	-0.03

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level				
0				PRDI-36-SC-0-15			SP-SM			
				PRDI-36-SC-15-30					<5%	
				PRDI-36-SC-30-45			SP-SM		<50%	
				PRDI-36-SC-45-60						
				PRDI-36-SC-60-75					<50%	
				PRDI-36-SC-75-90			SP-SM			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-36 (SC)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-34  
Sheet 1 of 1

Date: 10/5/22 Path: P:\0186890\GINT\018689003\WOOD CONTENT LIBRARY\GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/14/2021	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab	
Surface Elevation (m) Vertical Datum		-6.98 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Samish
Easting (X) Northing (Y)		1238098 636994			System Datum		WA State Plane North NAD83 (feet)		Surface Water		
Notes:		Time Measured		Depth to Mudline (m)		Water Elevation (m)		3:10:00 PM		-9.20 2.22	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-37-SS			ML	Olive silt	NS	0%	Shell hash: absent Vegetation/biota: fine degraded organic matter, fibrous (roots?) No odor
							SP-SM	Black fine to coarse sand and silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-37 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/16/2021	End 9/16/2021	Total Depth (m)	1.07	Logged By Checked By	NRS NM	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Surface Elevation (m) Vertical Datum	-7.01 NAVD88			Hammer Data				Drilling Equipment	Research Vessel Samish	
Easting (X) Northing (Y)	1238098 636994			System Datum	WA State Plane North NAD83 (feet)			Surface Water	Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured 10:57:00 AM	-7.65	0.64

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level				
0				▲ PRDI-37-SC-0-15			ML	Dark gray to black silt with fine sand		
				▲ PRDI-37-SC-15-30						
				▲ PRDI-37-SC-30-45			SP-SM	Black fine to medium sand with silt	<25%	
				▲ PRDI-37-SC-45-60			SP	Dark gray to black fine to medium sand with fibrous wood chips		
				▲ PRDI-37-SC-60-75					<25%	
				▲ PRDI-37-SC-75-90			SP	Gray fine to medium sand with fibrous wood chips and degraded organic matter		
1										

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-37 (SC)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-36  
Sheet 1 of 1

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/16/2021	End 9/16/2021	Total Depth (m)	1.8	Logged By Checked By	NRS NM	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore		
Surface Elevation (m) Vertical Datum			-4.83 NAVD88		Hammer Data			Drilling Equipment				Research Vessel Samish
Easting (X) Northing (Y)			1237625 636697		System Datum			WA State Plane North NAD83 (feet)			Surface Water	
Notes:								Time Measured 10:05:00 AM		Depth to Mudline (m)		-5.15
										Water Elevation (m)		0.32

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level				
0				PRDI-39-SC-0-15			ML	Gray silt with sawdust and wood chips	>80%	
0.5				PRDI-39-SC-15-30						
				PRDI-39-SC-30-45						
				PRDI-39-SC-45-60						
				PRDI-39-SC-60-75						
				PRDI-39-SC-75-90						
1							ML	Gray silt and fine sand with wood chips, wood chunks and sawdust	>80%	

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-39 (SC)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 9/14/2022	End 9/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab	
Surface Elevation (m) Vertical Datum			-10 NAVD88		Hammer Data		Drilling Equipment				Research Vessel Samish
Easting (X) Northing (Y)		1237522 636787		System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured 12:20:00 PM		-12.00 2.00	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-40-SS			ML	Olive silt with fine sand	NS	0%	Shell hash: absent Vegetation/biota: none No odor
							SP-SM	Gray-black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-40 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME



Drilled	Start 9/16/2021	End 9/16/2021	Total Depth (m)	0.9	Logged By Checked By	NRS NM	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore	
Surface Elevation (m) Vertical Datum	-9.58 NAVD88			Hammer Data				Drilling Equipment	Research Vessel Samish		
Easting (X) Northing (Y)	1237522 636787			System Datum	WA State Plane North NAD83 (feet)			Surface Water	Depth to Mudline (m)	Water Elevation (m)	
Notes:								Time Measured	9:12:00 AM	-9.53	-0.05

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing				
0					PRDI-40-SC-0-15			ML	Black silt with fine sand	
					PRDI-40-SC-15-30			ML	Black to dark gray silt to fine to medium sand with degraded organic matter	
					PRDI-40-SC-30-45			SP-SM	Gray silty fine to coarse sand with trace shell hash, degraded organics	
					PRDI-40-SC-45-60					
					PRDI-40-SC-60-75					<5%
					PRDI-40-SC-75-90			SP-SM	Gray silty fine to coarse sand with trace shell hash, degraded organic matter with trace wood chunks	

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-40 (SC)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003\WOOD CONTENT LIBRARY\GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 11/14/2021	End 11/14/2021	Total Depth (m)	0.12	Logged By Checked By	NS/EH NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab
Surface Elevation (m) Vertical Datum	-10.4 NAVD88			Hammer Data				Drilling Equipment	Research Vessel Samish	
Easting (X) Northing (Y)	1237332 636799			System Datum	WA State Plane North NAD83 (feet)			Surface Water	Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured 12:05:00 PM	-12.40	2.00

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS			
	Depth (meters)	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing					Water Level	Graphic Log	Group Classification
0					PRDI-41-SS				ML	Olive silt with fine sand	NS	0%	Shell hash: absent Vegetation/biota: decaying fibrous roots No odor
									SP-SM	Gray-black fine to coarse sand with silt			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-41 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.15	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab			
Surface Elevation (m) Vertical Datum		-2.26 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls		
Easting (X) Northing (Y)		1238900 637682			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)	
Notes:								Time Measured		9:09:00 AM		-3.78	1.52

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-42-SS			ML	Olive-gray silt with fine sand	NS	<25%	Shell hash: present Vegetation/biota: grass and grass roots No odor
							SP	Gray silty fine to medium sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-42 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.23	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-2.1 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls	
Easting (X) Northing (Y)		1238988 637805			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		9:40:00 AM	-3.47	1.37

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS		
	Depth (meters)	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing					Water Level	Graphic Log
0					PRDI-43-SS			SP-SM	Olive silty fine to coarse sand	NS	<25%	Shell hash: present Vegetation/biota: grass, grass roots No odor
								SP-SM	Gray-black silty fine to medium sand			
									Wood debris, chunks and fibrous pieces 18 to 20 cm			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-43 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-42  
Sheet 1 of 1

Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.28	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-2.23 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls	
Easting (X) Northing (Y)		1239046 637957			System Datum		WA State Plane North NAD83 (feet)		Surface Water			
Notes:								Time Measured 10:05:00 AM	Depth to Mudline (m)	-3.44	Water Elevation (m)	1.21

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-44-SS			ML	Olive/gray silt with fine to medium sand	NS	<25%	Shell hash: present Vegetation/biota: grass, roots No odor
							SP-SM	Dark gray/black silty fine to coarse sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-44 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.24	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-4.45 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls	
Easting (X) Northing (Y)		1238670 637473			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured 11:45:00 AM		-5.52		1.07

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS			
	Depth (meters)	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing					Water Level	Graphic Log	Group Classification
0					PRDI-45-SS				SP-SM	Olive/dark brown silty fine to medium sand	NS	<25%	Shell hash: absent Vegetation/biota: twigs No odor
									SP-SM	Dark gray silty fine to coarse sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-45 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.29	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab			
Surface Elevation (m) Vertical Datum		-4.59 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls		
Easting (X) Northing (Y)		1238756 637589			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)	
Notes:								Time Measured 12:10:00 PM		-4.33		-0.26	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS		
	Depth (meters)	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing					Water Level	Graphic Log
0					PRDI-46-SS			SP-SM	Olive/brown silty fine to medium sand	NS	<25%	Shell hash: present Vegetation/biota: twigs No odor
								SP-SM	Dark gray silty fine to coarse sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-46 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.25	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-4.72 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls	
Easting (X) Northing (Y)		1238836 637722			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		1:00:00 PM	-5.94	1.22

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-47-SS			SP-SM	Olive/brown silty fine to medium sand	NS	25-50%	Shell hash: present Vegetation/biota: none No odor
							SP-SM	Gray/black silty fine to coarse sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-47 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME



Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.25	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab			
Surface Elevation (m) Vertical Datum		-3.87 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls		
Easting (X) Northing (Y)		1238907 637857			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)	
Notes:								Time Measured		1:20:00 PM		-5.15	1.28

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS			
	Depth (meters)	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing					Water Level	Graphic Log	Group Classification
0					PRDI-48-SS				SP-SM	Olive/brown silty fine to medium sand	NS	<25%	Shell hash: present Vegetation/biota: none No odor
									SP-SM	Dark gray silty fine to coarse sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-48 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-47  
Sheet 1 of 1

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.22	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab	
Surface Elevation (m) Vertical Datum		-4.79 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls
Easting (X) Northing (Y)		1238958 638004			System Datum		WA State Plane North NAD83 (feet)		Surface Water		
Notes:		Time Measured		Depth to Mudline (m)		Water Elevation (m)		1:45:00 PM		-6.13 1.34	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level				
0				PRDI-49-SS			SP-SM			Shell hash: present Vegetation/biota: none No odor
							SP-SM			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-49 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Figure C-48  
Sheet 1 of 1

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.24	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab	
Surface Elevation (m) Vertical Datum			-4.33 NAVD88		Hammer Data		Drilling Equipment				Research Vessel Ingalls
Easting (X) Northing (Y)			1238666 637649		System Datum		WA State Plane North NAD83 (feet)		Surface Water		
Notes:							Time Measured		Depth to Mudline (m)	Water Elevation (m)	
							2:10:00 PM		-5.85	1.52	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level				
0				PRDI-50-SS			SP-SM	NS	0%	Shell hash: present Vegetation/biota: none No odor
							SP-SM			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-50 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.19	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-5.97 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls	
Easting (X) Northing (Y)		1238749 637786			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		3:20:00 PM	-7.65	1.68

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level				
0				PRDI-51-SS			SP-SM	NS	<25%	Shell hash: present Vegetation/biota: twigs No odor
0.19							SP-SM			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-51 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.26	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-5.84 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls	
Easting (X) Northing (Y)		1238813 637915			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		3:50:00 PM	-7.59	1.75

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS		
	Depth (meters)	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing					Water Level	Graphic Log
0					PRDI-52-SS			SP-SM	Light brown silty fine to medium sand	NS	<25%	Shell hash: present Vegetation/biota: grass No odor
								SP-SM	Olive silty fine to medium sand			
								SP-SM	Dark gray silty fine to coarse sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-52 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.24	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-5.82 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls	
Easting (X) Northing (Y)		1238850 638056			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		4:20:00 PM	-7.65	1.83

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS		
	Depth (meters)	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing					Water Level	Graphic Log
0					PRDI-53-SS			SP-SM	Light brown/olive silty fine to medium sand	NS	<25%	Shell hash: present Vegetation/biota: grass No odor
								SP-SM	Dark gray silty fine to coarse sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-53 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/30/2022	End 3/30/2022	Total Depth (m)	0.23	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-6.71 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls	
Easting (X) Northing (Y)		1238540 637719			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		9:00:00 AM	-7.92	1.21

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS		
	Depth (meters)	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing					Water Level	Graphic Log
0					PRDI-54-SS			SP-SM	Olive/brown silty fine to medium sand	NS	0%	Shell hash: present Vegetation/biota: none No odor
								SP-SM	Dark gray silty fine to coarse sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-54 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/31/2022	End 3/31/2022	Total Depth (m)	0.24	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab		
Surface Elevation (m) Vertical Datum		-6.58 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls	
Easting (X) Northing (Y)		1238637 637848			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)
Notes:								Time Measured		9:25:00 AM	-7.65	1.07

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-55-SS			SP-SM	Dark brown/olive silty fine to medium sand	NS	0%	Shell hash: absent Vegetation/biota: none No odor
							SP-SM	Dark gray silty fine to coarse sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-55 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME



Drilled	Start 3/31/2022	End 3/31/2022	Total Depth (m)	0.25	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab			
Surface Elevation (m) Vertical Datum		-6.36 NAVD88			Hammer Data		Drilling Equipment				Research Vessel Ingalls		
Easting (X) Northing (Y)		1238695 637970			System Datum		WA State Plane North NAD83 (feet)		Surface Water		Depth to Mudline (m)	Water Elevation (m)	
Notes:								Time Measured 10:00:00 AM		-7.35		0.99	

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (meters)	Interval Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0				PRDI-56-SS			SP-SM	Olive/dark brown silty fine to medium sand	NS	0%	Shell hash: present Vegetation/biota: none No odor
							SP-SM	Dark gray silty fine to coarse sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-56 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Drilled	Start 3/31/2022	End 3/31/2022	Total Depth (m)	0.27	Logged By Checked By	NS/BD NM	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab	
Surface Elevation (m) Vertical Datum			-6.28 NAVD88		Hammer Data		Drilling Equipment				Research Vessel Ingalls
Easting (X) Northing (Y)			1238759 638091		System Datum		WA State Plane North NAD83 (feet)		Surface Water		
Notes:							Time Measured 10:20:00 AM		Depth to Mudline (m)		-4.33
									Water Elevation (m)		-1.95

Elevation (meters)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS		
	Depth (meters)	Interval	Recovered (cm)	Blows/30cm	Collected Sample	Sample Name Testing					Water Level	Graphic Log
0					PRDI-57-SS			SP-SM	Olive/dark brown silty fine to medium sand	NS	0%	Shell hash: present Vegetation/biota: none No odor
								SP-SM	Dark gray silty fine to coarse sand			

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on GPS coordinates collected in the field.

### Log of Subtidal Sediment Sample Location PRDI-57 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/5/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD CONTENT LIBRARY.GLB\GEIB\_ENVIRONMENTAL\_STANDARD\_GW\_TIME

Date Excavated	4/20/2022	Total Depth (m)	0.092	Logged By	WDS	Excavator	Groundwater not observed
				Checked By	NM	Equipment	Caving not observed
						Hand Tools	
Surface Elevation (m)	-1.53	Easting (X)	1238787	Coordinate System	WA State Plane North		
Vertical Datum	NAVD88	Northing (Y)	637393	Horizontal Datum	NAD83 (feet)		

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
			PRDI-58-SS		SP	Light brown to gray fine to medium sand with gravel and shell hash (wet) (native)	NS	0%	Groundwater observed at approximately 2.5 centimeters Caving observed at approximately 4 centimeters

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-58 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	4/20/2022	Total Depth (m)	0.076	Logged By	WDS	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (m)	-1.19	Easting (X)	1238868	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	637512	Horizontal Datum	NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
-1.2			PRDI-59-SS		SP	Light brown to gray fine to coarse sand with gravel and shell fragments (wet) (native)	NS	0%	Groundwater observed at approximately ½ centimeter  Caving observed at approximately 4 centimeters

Note: See Figure C-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-59 (SS)



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	4/20/2022	Total Depth (m)	0.076	Logged By	WDS	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (m)	1	Easting (X)	1238959	Coordinate System	WA State Plane North			
Vertical Datum	NAVD88	Northing (Y)	637638	Horizontal Datum	NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
			PRDI-60-SS		GP	Light brown to gray gravel with fine to coarse sand and shell fragments (wet) (native)	NS	0%	<p>Groundwater observed at approximately 4 centimeters</p> <p>Caving observed at approximately 7.6 centimeters</p>

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-60 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	4/20/2022	Total Depth (m)	0.12	Logged By	WDS	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (m) Vertical Datum	0.5 NAVD88		Easting (X) Northing (Y)	1239050 637768		Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)	

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
0.4			PRDI-61-SS		SP	Gray fine to medium sand with shell fragments (moist) (native)	NS	0%	Groundwater observed at approximately 3 centimeters  Caving observed at approximately 8.9 centimeters

Note: See Figure C-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-61 (SS)



Project: South State Street Upland Investigation  
 Project Location: Bellingham, Washington  
 Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0\_0186890\_GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY\GLB\GEIB\_TESTPIT\_4P\_ENV

Date Excavated	4/20/2022	Total Depth (m)	0.1	Logged By	WDS	Excavator		Groundwater not observed
				Checked By	NM	Equipment	Hand Tools	Caving not observed
Surface Elevation (m) Vertical Datum	0.25 NAVD88	Easting (X) Northing (Y)	1239139 637903	Coordinate System Horizontal Datum	WA State Plane North NAD83 (feet)			

Elevation (meters)	Depth (meters)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Testing Sample	Sample Name Testing						
0.2			PRDI-62-SS		SP	Light brown fine to coarse sand with shell fragments (wet) (native)	NS	0%	Groundwater observed at approximately 1 centimeter  Caving observed at approximately 4 centimeters

Note: See Figure C-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates collected in the field. Vertical approximated based on 2021 David Evans & Associates Bathymetric Survey.

### Log of Intertidal Sediment Sample Location PRDI-62 (SS)



Project: South State Street Upland Investigation  
Project Location: Bellingham, Washington  
Project Number: 0186-890-03

Date: 10/3/22 Path: P:\0186890\GINT\018689003.GPJ DBLibrary/Library\018689003\_WOOD\_CONTENT\_LIBRARY.GLB\GEIB\_TESTPIT\_4P\_ENV